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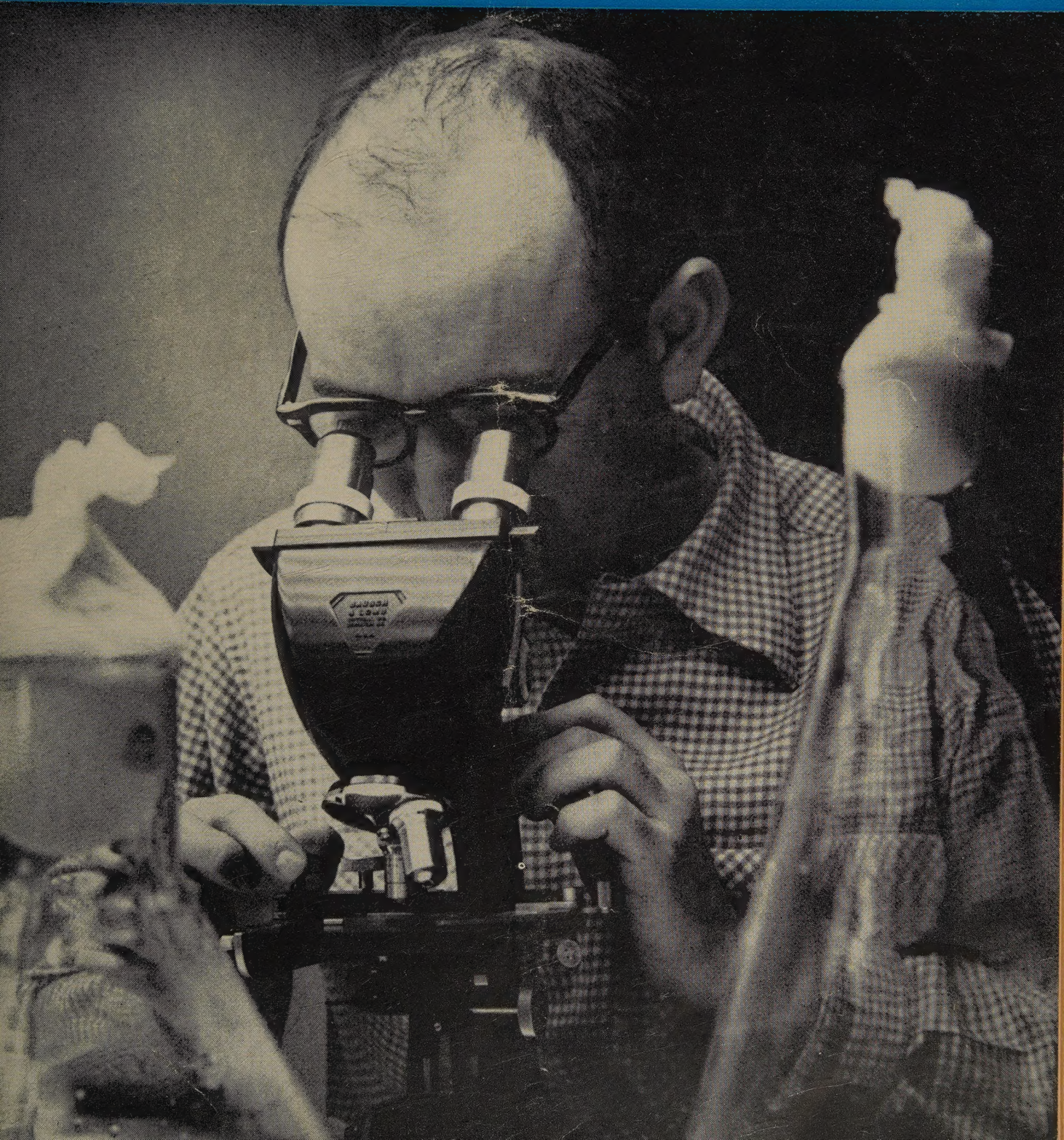

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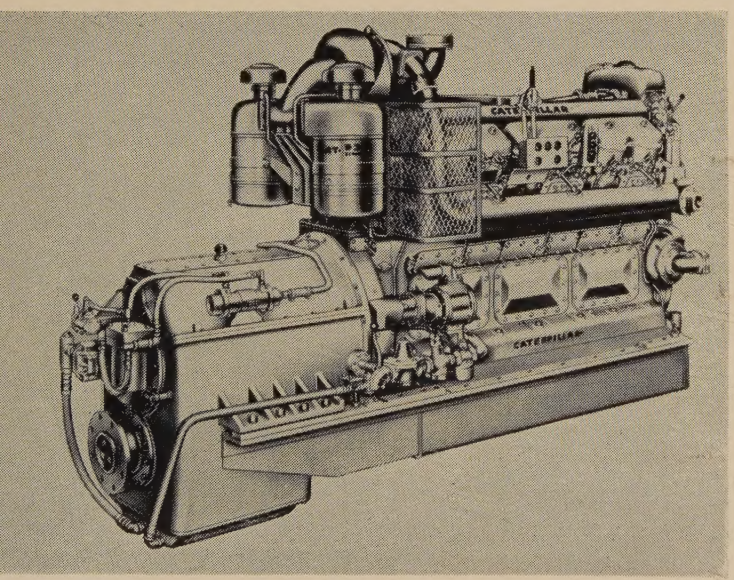

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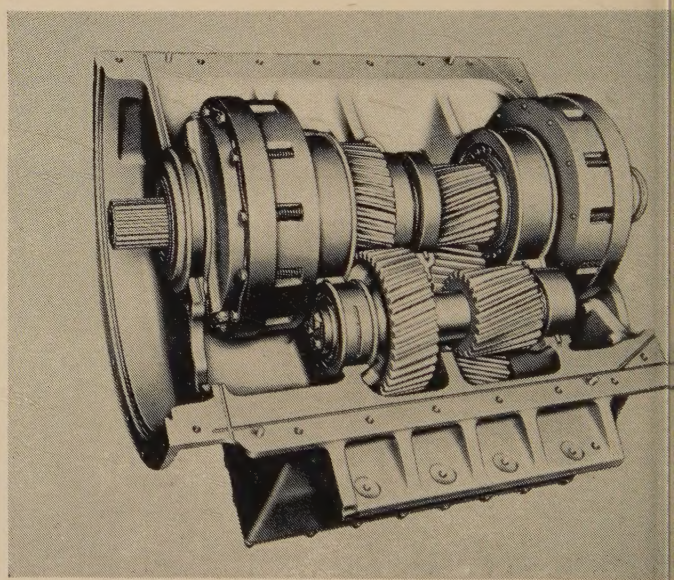

The No. 3181 Marine Gear shown with top half of housing lifted, to allow removal of gears and clutches without detaching gear from the flywheel housing — or interfering with alignment.

Engine Division, Caterpillar Tractor Co., Peoria, Ill., U.S.A.

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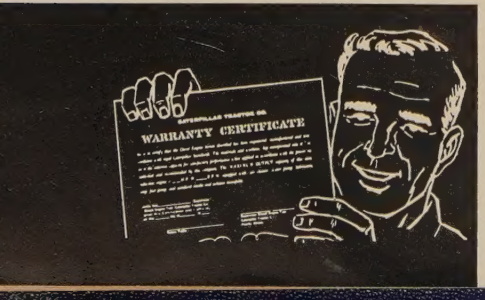

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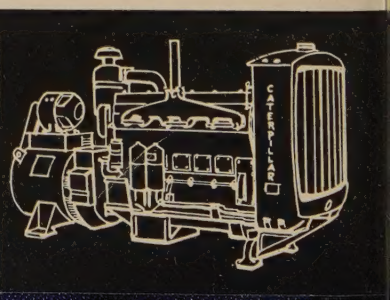

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PUBLISHING OFFICE

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731 S. W. Oak Street ..... CA 2-1314

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Our Fifty-Seventh Year— APRIL, 1959 Vol. 57 No. 5

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The Cover

● Fisheries Research, the central theme of this issue of **Pacific Fisherman,** is exemplified by our cover photograph of Dr. Ahron Gibor of the Alaska Fish and Game Commission's Biological Research Division working in the commission's laboratory in Juneau. (Photo by T. R. S. Bronstein.)

Getting the Facts Straight

● Much misinformation and many misconceptions have been given circulation in the welter of report and discussion generated by announcement of impending closure of Bristol Bay fishing, followed by appearance of a Soviet fishing fleet in Bering Sea near the Alaskan coast.

Clarification should follow calm review of the facts on these points:

1. U.S.S.R. is not developing a new bottom fishery in eastern Bering Sea. The Japanese have been fishing there for years, and in 1958 took 102,414,000 lbs. of trawl fish.

2. Soviet Russia is entirely within her rights to fish in eastern Bering Sea outside territorial waters, which under U. S. policy extend only three miles from shore. So far as "historic rights" are concerned, have we established any position in bottom fishing? For salmon, yes; for crabs, yes; for halibut, possibly; but for other bottom fish?

3. Soviet Union's activities in eastern Bering Sea may be designed to (a) apply competitive pressure to force Japan to an acceptance of the Soviet proposals at the conference currently under way in Tokyo; (b) influence an invitation for the U.S.S.R. to enter a new North Pacific fisheries treaty with Japan, Canada and the United States; (c) embarrass the United States in its defense of its 3-mile-limit doctrine before the 1960 Law of the Sea conference in Geneva; and (d) to establish "historic rights" in this area, as the Japanese have done.

4. Japan abstains from fishing east of 175° W. Long. *only for salmon.*

5. For halibut she abstains from fishing in the area off the coasts of Canada and the U. S. where commercial fishing for halibut originating along the coast of North America is or can be prosecuted.

6. Herring fishing in Bering Sea is specifically excluded from the area of Japanese abstention, which for herring is limited to the coastal waters of the North Pacific south and east of the extremity of the Alaska Peninsula.

7. Japan is under no obligation to abstain from fishing crabs or other shellfish, or any species of fish other than salmon, halibut and herring, in any waters whatsoever more than three miles off the coast of North America.

● Those are the *facts.* Let's face them.

A Second Assignment to Peru

● In 1957 *Pacific Fisherman* published an entire issue devoted to the subject: "The Fisheries of Peru—New Forces in a World Industry," the most comprehensive report on Peruvian fisheries ever to be published.

Now this journal is again privileged to examine the remarkable industrial fisheries of Peru, and to report upon their further progress, and problems.

Raul Rodriguez, this journal's associate editor for Southern California, is en route to Peru aboard a tuna seiner serving the South American subsidiary of Westgate-California.

His editorial mission, extends also to Ecuador and to Guatemala, where his cousin is Minister of Economy.

A series of Mr. Rodriguez's reports will begin in our May number, extending available information on the fisheries of Latin America.

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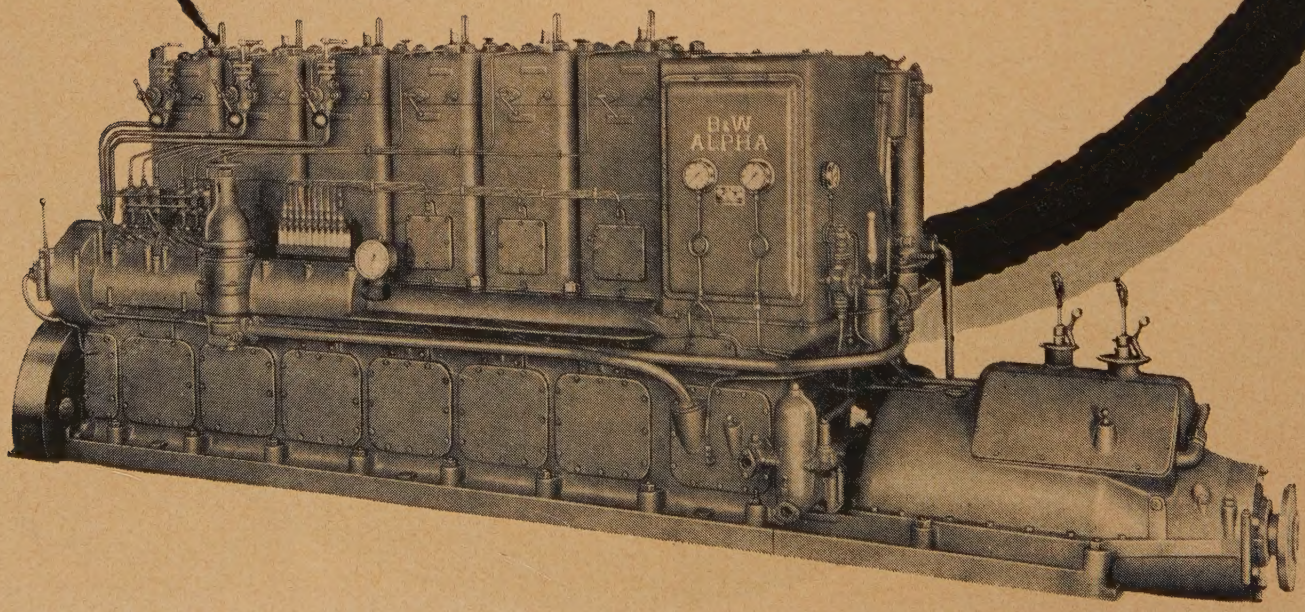

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new family-size Tuna Can from Canco

First innovation for tuna canning in over a decade; holds 9¼ ounces—2¼ ounces more than standard can!

Canco's new family-size tuna can has been launched throughout the United States—and it's winning immediate consumer acceptance!

Here's why: extensive surveys have indicated that for medium-size families the conventional tuna cans hold too little or too much. The new 9¼-ounce family-size can is what they want . . . need . . . and will buy!

The first company to market the new can—a giant California packer—states, "We estimate as much as 37% of the total grocery store tuna sales will eventually be accounted for by the new family-size pack."

That's quite a market! . . . one *you* can't afford to miss. In fact, it's the first innovation in over a decade that tuna canners can sink their sales teeth into. So call your Canco man immediately. You can count on Canco—as it continues to lead in contributions to the fish canning industry!

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PACIFIC FISHERMAN April, 1959

INTERNATIONAL CURRENTS

Swirl in Pacific Fishing

● Fishing is a world industry—and the high seas are international seas.

International currents of power and policies, of pressure and politics can stir and ruffle the seas of international fishing—

And never more than now, right now, in the North Pacific, including its northerly extensions into Bering Sea and Bristol Bay.

● Japan, the foremost fishing nation of the world, has pressed its dominance so aggressively in the salmon seas across the North Pacific that the rich Red salmon fisheries of Alaska have been depleted to the point where scientists say their destructive can be prevented only by the most rigorous means.

In Asia, scientists of the Soviet Union say the same of the Red salmon resources of Kamchatka.

● In November, 1958, the United States Section of the International North Pacific Fisheries Commission told Japan and Canada that sustained intensity of Japan's fishing on mingled stocks which include Alaska Red salmon would force the closure of Bristol Bay, with all the unpleasant consequences which such drastic action necessarily would produce.

Negotiations seeking a basis on which Japan would reduce the intensity of the exploitation of these stocks have continued from early December through March in Washington and Tokyo, and at government levels barely below the summit.

To presstime they had been fruitless.

● Closure of Bristol Bay fishing, save for some limited operations by local residents, was announced late in March by Secretary of the Interior Seaton.

This triggered a violent reaction from thousands who had been warned, but who evidently had not believed it could happen.

Congress re-activated bills designed to close American markets to salmon produced by means and in areas illegal for Americans.

Hearings are being held this month in Alaska and Seattle. Action could come within a month.

● Actual terms of the Bristol Bay closing had not been disclosed at time of writing. They were expected to permit setnet fishing by bona fide Bristol Bay residents.

If they do, it is almost certain the regulations will be attacked in the courts—as Mr. Seaton's trap-closing order has been—on grounds of discrimination against gillnetters, whose gear is essentially identical save that it, unlike the setnet, does not enjoy an exclusive right of fishery, the fatal special right which destroyed the salmon trap.

U.S.S.R. Moves Aggressively

● After two months of jockeying in the annual fisheries conference with Japan, the Soviet Union in mid-March revealed its program for counteracting the adverse effect of Japan's high seas fishing on the Red salmon resources of Kamchatka.

The prescription was painfully potent. Details and sketches appear on Pages 31 and 33. The program would restrict Japanese operations severely in the area off the east coast of Kamchatka.

It would cut almost six weeks off the Japanese fishing season.

"Absolutely impossible" said the Japanese fisheries press.

This fact remains: if Japan in the long run comes to "buy" any considerable part of the Soviet "package", she will be agreeing to a restriction of her fishing intensity comparable with what the United States has sought.

Presumably Japan would expect to honor the request of the United States for reduced fishing intensity in the interest of conservation in a degree matching any concessions she agrees to grant to the Soviet Union.

● Soviet Russian did not limit its surprises to the demands upon Japan.

Before the end of March she had thrown a great fishing

Photographic Reflections of Alaska Legislature

Fisheries Chairmen and a Lady Senator—Here the chairmen of the Washington and Alaska Senate and House Fisheries Committees consult with Senator Irene Ryan of Anchorage. From the left: Senator Harold Kimball, Seattle; Senator Frank Peratrovich, Ketchikan; Senator Ryan; Representative Chet King, South Bend, Wash.; Representative Andrew Hope, Sitka.

fleet into eastern Bering Sea, between the Pribilofs and the Alaskan mainland.

Included were some 42 trawlers serving six freezer or factory ships, together with a tug and transport. They were fishing on the high seas, generally in the same area where Japanese trawling expeditions have been operating for the past several years.

They are fishing near, if not on, grounds where some heavy populations of halibut have been proved by research operations of the International Pacific Halibut Commission, established under treaty between Canada and the United States.

● All of these confused currents set other swirls to running in the fisheries.

Governmental officials of the United States and Canada, backed with delegations of advisors, will meet in Vancouver, B.C., April 21 to grapple with problems related to fisheries of common interest to the two countries and not covered by existing treaties.

These subjects include:

1. Location of the seaward limit for net fishing for salmon by nationals of the two countries in the area of the international boundary in the Straits of Juan de Fuca. This line two years ago was set provisionally at Bonilla Point-Tatoosh Island. It was to be re-examined this year in the light of two years of joint research designed to determine where it should be in order to provide a measure of protection for Silver salmon passing through international waters en route to native streams.

2. Location of the seaward limit for net fishing off Noyes Island, Alaska, where Canadians believe American fishermen now intercept runs of Pink salmon bound for northern British Columbia.

3. Responsibility of a party to an international convention for providing escapement of a salmon stock passing through its territorial waters en route to convention waters subject to the treaty in which it participates. (This is the problem arising from the fishery on Fraser River Sockeyes and Pinks which may enter treaty waters by way of Johnstone Strait instead of the Stra of Juan de Fuca.

There will be other problems on the agenda before April 21.

● United States Section of the International North Pacific Fisheries Commission has called a meeting with its advisory committee in Seattle April 27 to examine its 1959 research program and problems of international fishing in North Pacific Treaty waters.

Looking a Year Ahead

● Nor is this all.

Next spring a new Geneva Conference will seek to set for all the world a measure of the proper width of the territorial sea—with or without fisheries zone.

This concerns the 3-mile limit, the 12-mile limit, the no-limit—

And all the international currents swirling in the North Pacific this spring are associated with it.

What the Alaska Fishermen's Union says:—

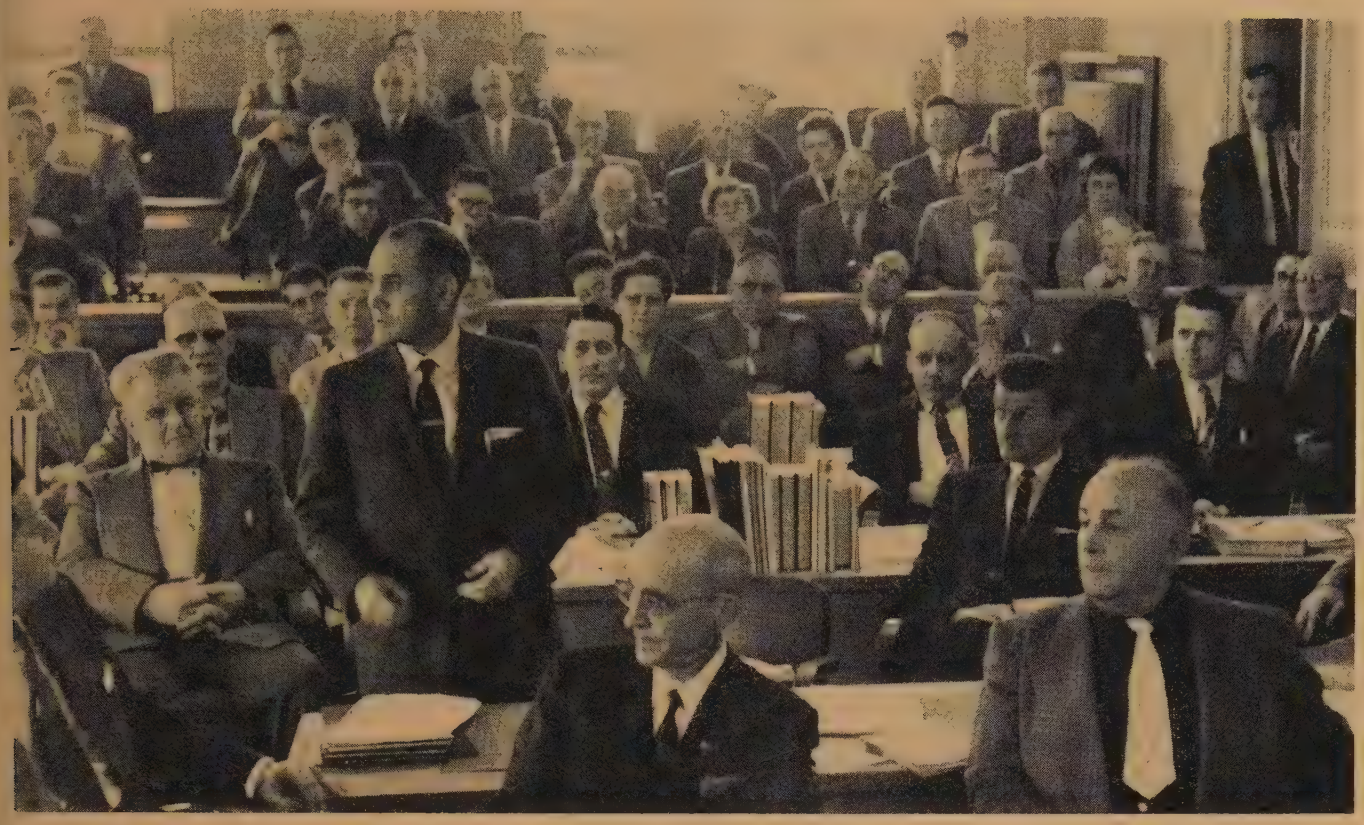
"It seems to us there are two solutions which could bring the Japanese to comply to good conservation principles. The first of these is federal legislation. We have at the present time pending in Congress bills which would prohibit the sale of Japanese canned salmon on American markets. We believe it is a clear duty of our Congress to enact these bills and so serve warning upon the Japanese that we do not intend to sit idly and see this valuable salmon resource destroyed.

"The second solution we see is for the American housewife to become conscious of the fact that American wage-earners are losing their jobs and incomes because of imports of Japanese products. We would strongly urge all housewives to buy American.

"We hold no ill-will toward the Japanese, or any other race of people, but we believe our government has a responsibility to place the welfare of our own fishing industry over and above that of a foreign industry."

—By George Johansen,
secretary-treasurer.

In the New State's Number 1 Session at Juneau



Chet King speaking as chairman of the Fisheries Commission of the Washington State House of Representatives before a joint session of the Alaska legislative houses in Juneau as the two sister states exchanged legislative courtesies.

Seaton Closes 10 Traps Owned by Indian Tribes

● Perhaps the prime surprise in the Alaska Fishery Regulations for 1959 was the fact that they would permit operation of only 11 out of the 21 Indian-owned salmon traps.

These are the only traps to be permitted under Secretary of the Interior Seaton's order. Elimination of the others occasioned no surprise, for he had previously announced their destruction—which is now under attack in the Federal courts.

The secretary, while permitting the Indians to operate traps, did not do so because of any lack of authority over such Indian-owned traps. This was made perfectly plain by the fact that, with 21 such traps owned by three tribal communities, he is permitting only 11 to be operated in 1959.

Thus the discrimination in favor of the Indian tribal communities was based upon something other than recognition of special status for traps located within Indian reservations and owned by the tribal communities.

In respect to this discrimination, the secretary says in his order:

"Within the limitations stated, the number of Indian traps to be permitted to operate will be determined from time to time by the Secretary of the Interior. Because of the relatively poor salmon runs expected in Southeastern Alaska during the 1959 cycle, and the need for insuring the escapement of adequate spawning stocks, it

What the Bristol Bay packers said:—

"The decision of the Department of Interior to close Bristol Bay to commercial salmon fishing in 1959 and deprive thousands of fishermen and other workers of their means of livelihood, is a direct result of the action of the Japanese government in licensing and encouraging its fishermen to conduct unrestricted fishing operations on the high seas where both mature and immature salmon destined for Bristol Bay streams are congregated. The Japanese action is in violation of the spirit and intent of the International Convention for the High Seas Fisheries of the North Pacific Ocean between Japan, Canada and the United States.

"The Japanese are not only catching the salmon spawned in Bristol Bay streams and threatening to completely extinguish the resource but they also sell their catch in the American market. They are taking our fish and selling them back to us.

"Our government is rightly attempting to prevent decimation of this valuable American fishery. But it is not going far enough. The Japanese ought to be denied access to the American market not only as to salmon taken on the high seas in violation of the spirit and intent of their solemn treaty obligation, but also as to other canned fishery products. It seems that only in this way can they be induced to cooperate in conserving North American salmon.

"Legislation has been introduced in Congress by Senators Magnuson, Jackson, Bartlett and Gruening and by Congressmen Pelly and Rivers for this purpose. It is hoped Congress will act favorably on these bills."

A Gallery of Glimpses at the Juneau Session

Drum Seines May Have Been the Subject as Washington Representative Dick Kink of Bellingham gestured in explanation to an unidentified Alaskan legislator on the left. Second from the right is Alaska Representative Allan Petersen, of Kenai, with Senator Harold Kimball of Seattle on the right.

has been determined that only 11 of the 21 Indian traps can be permitted to operate during the 1959 season."

• It is perhaps notable that the secretary did not disturb the right of fishery with fishwheels in the Yukon.

The "Alaska limit" on purse seiners remains in force in all parts of the state except along the Alaska peninsula. Thus the secretary rejected the pleas of Puget Sound fishermen whose boats are too large for operation in Alaska under the 50' "official registered length" limitation.

On the other hand, the regulations continue to permit use of drum seines in Alaska, although these have been outlawed by the state legislature.

• *Quotas* —

Razor clam canning in the Kodiak district is limited to 12,500 cases of 48 halves; and in the Copper River-Prince William Sound districts to 42,000 cases of 48 halves.

Southeast Alaska herring quotas permit: 10,000 tons in the Clarence Strait, Sumner Strait and South Wales districts, with not more than 5,000 tons permitted to be taken south of Ernest Point; 22,500 tons in the Eastern and Western districts, with not more than 6,250 tons to come from the trolling areas on the west coasts of Baranof and Chichagof Islands.

An additional 10,000 tons may be taken after July 15 in the southern parts of these areas; and a further additional 2,000 tons in the Icy Strait, Lynn Canal and Chatham Strait areas.

Alaska Trap Closure Attacked in U.S. Courts

• Legal attack upon the validity of the 1959 Alaska Fishery Regulation closing all Alaska salmon traps except for 11 located within Indian reservations was launched in Washington March 19 by the Alaska Salmon Trap Operators Committee, headed by Clarence Payne, president of the Ketchikan Packing Co.

Although copy of the complaint was not available in Seattle at presstime of this issue, it is understood that the legal action would attack the right of Secretary of the Interior Seaton to close the traps on grounds other than those of conservation. In announcements preceding his action, the secretary was quoted as saying that the

You Tell 'Em, Milo—Milo Moore, Washington director of fisheries, points one out to Senator Irwin Metcalf of Seward, Alaska, while Senator W. O. Smith of Ketchikan looks on as the Man in the Middle.

closure would not be based on conservation but was being taken because Alaskans had overwhelmingly expressed themselves as opposed to traps.

The legal action also is believed to contend that Congress has indicated the intention of permitting the traps to be eliminated over a period, rather than to wipe them out at a stroke; which would involve the loss of millions to trap owners and of employment to about 2,300 workers.

The legal action was filed in the names of five canning companies owning traps, five independent trap owners, and five members of the Alaska Fishermen's Union.

● Regulations providing for trap closure generally were received with widespread joy in Alaska, and particularly at the legislative session in Juneau.

Despite the fact that Secretary Seaton early in November had promised categorically that the 1959 regulations would eliminate traps, there was some doubt on both sides of the question as to whether he would carry through with the commitment, in view of the strong argument presented against it on economic and social grounds.

● More realistic operators, on the other hand, generally recognized that elimination of the traps was in the offing, and went ahead with preparations for the season on the basis of supplies of fish from other gear.

A number of concerns are known to have foregone participation in the legal action against traps because they felt that (1) the 1959 season was not promising for this form of gear; and (2) opinion in Alaska is so strongly opposed to traps that public relations would be impaired by undertaking to operate them by attacking the Seaton prohibition.

"Now about King Crabs—" . . . Howard Wakefield of Wakefield's Deep Sea Fisheries, Inc., explains some of the King crab's many points to William Beltz of Unalakleet, president of the Alaska Senate.

Chas. Carry to Japan On U. S. Trade Mission

Charles R. Carry, executive director of the California Fish Canners Association, left the United States early in April for six weeks in Japan as a member of a trade mission sponsored by U. S. Department of Commerce.

These missions "are designed to establish business friendships through extensive personal discussions and to encourage mutual trade, travel and investment by describing basic U.S. commercial techniques and procedures."

Talkin' Fish—

Alaska Representative Jay Hammond of Bristol Bay, left, and Bud Boddy of Juneau, executive director of the Alaska Sportsmen's Council, consult in Juneau during the middle stages of Alaska's first state legislative session.

Sig Westrheim Directs Oregon Fisheries Research

Sigurd J. Westrheim was advanced in March to director of research for the Oregon Fish Commission, it was announced by Albert M. Day, director.

In his new position Mr. Westrheim will be concerned with guiding all phases of fisheries research being conducted by the commission.

Specific work included in this program deals with such projects as marine fisheries management-research, Columbia river commercial fisheries management-research, otter trawl, albacore and troll salmon management, hatchery evaluation and marine analysis, fish passage activities, and the Columbia river fisheries development program, which is federally financed to rehabilitate the salmon and steelhead runs in the Columbia river.

During 1946 and 1947 Mr. Westrheim worked in Bristol Bay, Alaska, later doing research work in Ketchikan and Bristol Bay for the Fisheries Research Institute of the University of Washington. He joined the Oregon fish commission's research staff in 1949 and was stationed at the Astoria laboratory for seven years.

In 1957 he was transferred to the commission laboratory at Clackamas where he took over the Columbia river studies. In May, 1958, he was appointed assistant director of research. A native of Portland, he is a graduate of the School of Fisheries of the University of Washington.

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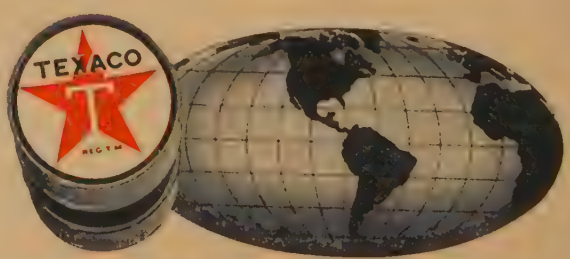

QUALITY AND SERVICE AROUND THE WORLD

N. F. I. MEETS IN THE BIG TOWN

TOPIC NO. 1 —

How to Pack, Maintain, And Market Top Quality

● National Fisheries Institute meets this month in New York City, April 12 through 15, at the Hotel Commodore.

In some respects the retailer's reaction to fish and its marketing will be the theme of the convention.

Then again, there'll be special attention to the technological turn of things — like what happens to packaged fish in storage, and why.

Back of it all you may be sure that there will be a lot of attention to international matters and their impact on the fisheries. Foreign affairs hold a commanding position in the N.F.I. attention today.

● One of the wholly new features of this year's convention is bound to be the Monday morning display of seven different kinds of fish were held in storage for nine months at 10 below Zero, at Zero, and at 10 above.

They will be shown at the convention, and cooked portions of each offered for tasting and testing.

It's a feature worked up by Harry R. Beard of the New England Fish Co., Seattle, in collaboration with Harris Magnusson, chief of the N.F.I. Technology Branch.

● Some of the giants of retail food selling, bigwigs from the big chains, will compose a Monday panel devoted to the problems of taking profit from quality sea foods.

Another feature of that opening day will be the regional caucuses, where new directors are elected. These will be held as the first feature of the convention proper.

● Six special forums will feature the second and third mornings of the meeting. Last year these were called "workshops", but there was a feeling that some folks stayed away because they didn't feel like working so early in the morning—so this year they call them "forums."

On Tuesday these separate sessions will talk about fresh fish, frozen package fish, and smoked and cured fish—this latter under the leadership of Louis Vitale of the Los Angeles Smoking & Curing Co.

Wednesday morning will see the meetings of the crabmeat, freshwater fish and grading and inspection forums.

● Recent conventions have been featured by the display of samples of packaged—and some canned—fish; and by the judging contest.

This year the display will seek to emphasize the importance of better handling and storage for a product which is perishable even though frozen if it is not handled properly.

Pre-NFI Cutting Reveals Need for Retail Scrutiny

● Wholesale dealers in fresh and frozen fish were told last month that it would be a good idea for them to check occasionally on their retail customers to see that sea foods are properly handled at the market level.

The speaker was Harris Magnusson, director, technology, NFI, who spoke to the March meeting of the Southern California Fisheries Assn. in Los Angeles.

Mr. Magnusson was reviewing the findings of a fish-and-seafood display and judging staged by the association. He reminded his hearers that loss of retail sales because of poor condition of fish in the market soon reflects in loss of sales to the retailers. He said programs for improving retail handling of fish were in progress in some parts of the US, and some such effort would do no harm in Southern California.

The association's fish display and judging was set up at the Los Angeles Cold Storage Co.'s plant, and reports on the judging were given at a dinner meeting following the judging, at the Biltmore Hotel.

Mr. Magnusson said that samples packaged by the markets were generally up to weight, but some producer-prepackaged samples were slightly under. Samples, however, he said, complied with the Food & Drug Administration rules on average weights.

Temperatures, he said, seemed to be generally well maintained, but there was some evidence that some frozen samples had been allowed to warm up to 32 deg. then put back in the zero cases.

The judges' committee on halibut and trout samples was headed by A. M. Nott; on salmon and breaded shrimp by Jack Caro; and on sole filets and swordfish by Frank Tsuchiya.

Principal fault found with the halibut and trout seemed to be drip; excessive breading was found in some shrimp samples. Generally, however, the criticism was mild.

K. Kobayashi Is Appointed North Pacific Commissioner

Koichiro Kobayashi, vice president of Nichiro Gyogyo K.K., was appointed this spring as a Japanese member of the International North Pacific Fisheries Commission. He held the position previously.

Mr. Kobayashi succeeds K. Suzuki, president of Nippon Suisan K.K. as industry member of the Japanese section, in line with the program which provides for rotation of this appointment between the three leading salmon canning companies of Japan.

L. T. Peterson Retires From Sitka Cold Storage

After 46 years of association with the Sitka Cold Storage Co., which he served as chief engineer and later as manager, L. T. Peterson in March notified the company that he planned to retire in the near future.

It is understood that Gay Helland will succeed Mr. Peterson, who says his future plans are indefinite.

In addition to his long service at Sitka, Mr. Peterson was associated with the building and operation of Aleutian Cold Storage Co., Sand Pt.

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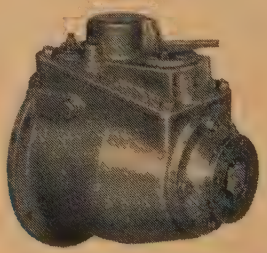

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America Makes a Bid:

"Exclusive Fishing Zone" With "Historic Rights"

● Law of the Sea will dominate much of the serious thinking at the National Fisheries Institute convention in New York this month —

Just as it did at the San Francisco NFI meeting last year —

Just as it will at the meeting in New Orleans *next* spring.

● The subject is vital to American fisheries—and perhaps to America.

It all comes down to this:

The traditional narrow territorial sea, commonly considered as being bounded by a "three-mile limit," has been brought under heavy fire in recent years by nations whose ambitions for world domination would be well served by the advantages which a wide territorial sea would provide for their submarines.

Other nations have sought extended jurisdiction for fisheries in efforts to retain these economic advantages of the seas along their shores for their own fishermen, to the exclusions of all others.

In the 1958 Conference on the Law of the Sea this latter view gained great headway among nations which generally supported the narrow territorial sea for security purposes, but wanted a wider zone of exclusive fishery for their own nationals.

The 1958 conference failed to resolve the matter. Another has been called for 1960 to make an end of it. A year ahead, the United States is at work to bring the questions of the territorial sea to a conclusion which will not save the security of the free world from critical impairment, but which at the same time will protect the coastal fisheries of nations from exploitations by the fleets of nations which have not historically shared in them.

● This is the meat of the compromise proposal which the United States has frankly offered to the world.

The proposition echoes with formal phrases: "narrow territorial sea," which means the three-mile limit; "exclusive fishing zone," which means extension of a nation's authority over fisheries in its coastal waters beyond the three-mile limit; "Historic rights," which means that nations which have fished historically within the "exclusive fishing zone" would be preserved in their right to continue to do so.

● American fishermen have a vital interest in this new bid of their nation for a compromise.

It is not difficult for the acute reader to sense that, if it cannot sell the "historic rights" provision, the Department of State is prepared to make a deal for a "narrow territorial sea" and an "exclusive fishery zone" *without* provision for "historic rights."

The words of an official spokesman of the Department of State, quoted on this page, make this plain, saying:

"The United States cannot accept an extension of the breadth of the territorial sea out to 12 miles and will seek in every way possible to reach an agreement which will provide for a narrow territorial sea."

● He who has ears to hear notes the voices of American fishermen paraphrasing these words:

"The United States fisheries cannot accept provision for exclusive fishing zones which does not also provide for historic rights, and will seek in every possible way agreements which will protect those rights."

READ CAREFULLY —

Here Is the Official U.S. Position On the Matter of the 12-Mile Limit

● "Because of the requirements of our national security interests and our responsibility with respect to the defense of the free world, the United States cannot accept an extension of the breadth of the territorial sea out to 12 miles, and will seek in every way possible to reach an agreement which will provide for a narrow territorial sea . . .

"This objective can be achieved through mutual cooperation, and by meeting the legitimate economic interests of a number of states which would then support our position for a narrow territorial sea.

"The success of our efforts will depend largely on our ability to solve the fisheries question . . .

"An arrangement envisaging a narrow territorial sea coupled with an exclusive fisheries zone, which preserves the right of those who have historically fished there to continue to do so, would accrue to everyone's benefit.

"It would strike a just balance between the interests of the coastal state and the interests of fishermen off another state's coasts . . .

"It is hoped that the exact terms of such a compromise can be formulated prior to the 1960 conference . . .

"Failure to agree on these questions of the breadth of the territorial sea and fisheries limits at the next conference will result in extensive unilateral extensions of the territorial sea with very grave political, economic, and military consequences for the free world."

—**Loftus E. Becker,** legal advisor, U. S. Department of State, before the Fisheries Products Division, National Canners Association.

CAREFUL, PLEASE,
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A plea to fishermen for greater caution in areas where underseas cables lie on the ocean floor is the theme of the Bell System exhibit at the New York convention.

The danger is that fishing gear can get tangled with these cables, and cause breaks. Result: everybody suffers.

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The public suffers because of delayed overseas communications. Hundreds of thousands of dollars are involved.

Here is how you can help:

1. Carefully check underseas cable areas before you begin trawling. Free maps are available at our booth. Pick up as many as you need. (If you can't attend the convention, we shall be happy to mail them to you.)
2. Don't drag nets or drop anchors or other heavy gear within cable areas shown on our maps.
3. Avoid starting trawling runs that may cross cables. If you lose or damage any gear in avoiding injury to an underseas telephone cable, the Bell System will pay you for this equipment. Get full details from our Convention Representative.

BOOTH 29, NATIONAL FISHERIES INSTITUTE CONVENTION, COMMODORE HOTEL, NEW YORK CITY, APRIL 11-14

BELL TELEPHONE SYSTEM

Consumer-Captivating Quality

Objective Sought by N. F. I. Cutting

●"Hey, Mom, that was good!"

That's the kind of reaction Pacific frozen-fish packagers are trying to produce; and that's the motive behind their increasing study of quality control.

That's also the kind of reaction that National Fisheries Institute members want from federal inspectors. At the Frozen Steak and Fillet Cutting, March 17 in Seattle, N.F.I.-member judging teams had a chance to examine salmon and halibut steaks, sole and rockfish samples, in frozen, thawed and cooked states, with the new U.S.D.A. inspection forms. They could put themselves in the shoes of the same federal inspectors who'll inspect these products with a view to making sure the housewife will approve. The samples, as last year, were drawn from retail freezer shelves as well as from warehouses before shipment. This gave a picture of how packaged frozen fish survives the distribution process.

Improved packaging methods, and completely new methods, were under study — storage and transportation methods, as well as the manner in which the fish is cut for packaging; and the quality of the original product from the boat, were all considered. Heavy representation at the meeting from packaging materials suppliers was noted by *Pacific Fisherman* at this cutting sponsored by the N.F.I.

Several members of the Deep Sea Fishermen's Union swelled the attendance and, according to E. A. Ruthford, N.F.I. Quality Committee chairman, this will be encouraged, as well as participation by Fishing Vessel Owners. They are being asked to participate in the actual judging next time.

Facilities of the University of Washington School of Fisheries Laboratories were used for the test this year, with a team of 16 judges as follows:

Salmon steak: George Wilner, Nakat Packing Corporation; Norm McGregor, San Juan Fishing & Packing Co.; Norm Weitkamp, Washington Fish & Oyster Co.; Brad Hall, Booth Fisheries Co.

Halibut steak: Rufus Littlefield, Seattle Seafoods, Inc.; Walt Johnson, Fishermen's Co-op; Pat Kelly, Safeway; Bud Moore, Whitney & Co.

Fillet sole: Harry Beard, New England Fish Co.; Jack Alhadeff, Whiz Fish Products Co.; Bill Eardley, Jr., Eardley Fisheries Co.; Nick Radovich, Everett Fish Co.

Attention to Quality rules the Seattle packaged frozen fish cutting of National Fisheries Institute, held in Seattle March 17. Here two of the teams scrutinize their samples.

Fillet rockfish: Cliff Gilker, Booth Fisheries; John McCallum, McCallum-Legaz Fish Co.; Russ Boshell, San Juan Fishing & Packing Co.; Palmer Olson, New England Fish Co.

These judges were divided into pairs of two-man teams, and inspection by U.S.D.A. men was made at the same time. Here is what they reported:

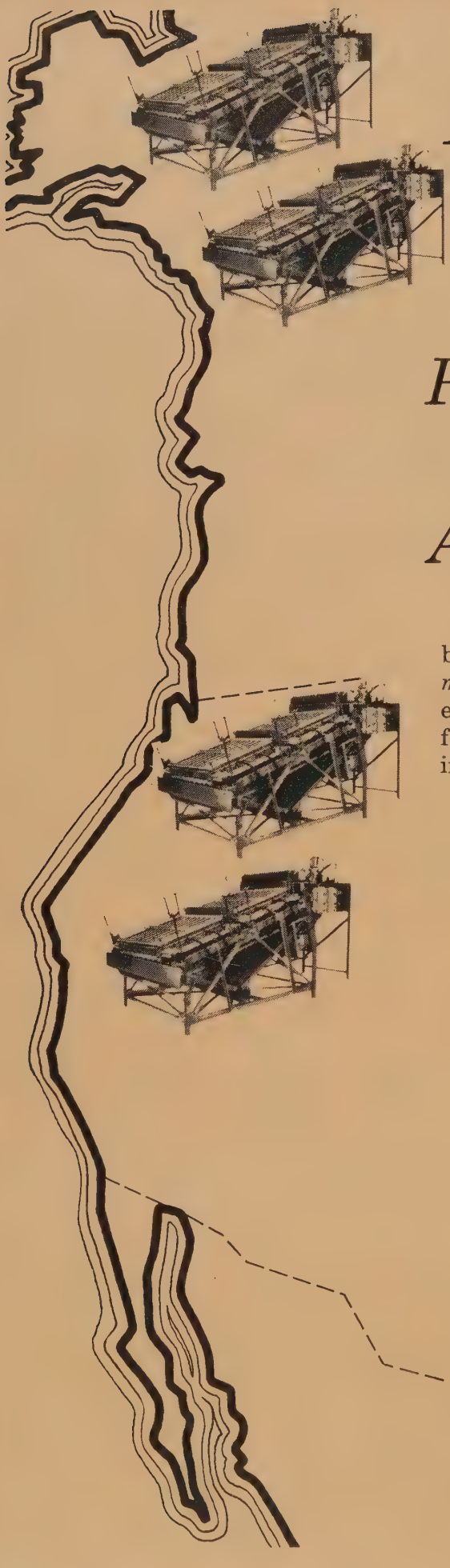
Halibut: Much improvement was noted from earlier cuttings, but the desired quality is still not attained. This year's cutting was better than ever before, and the margin of difference between quality at warehouse and retail levels has narrowed. No package was deemed "unacceptable." Workmanship is now the factor where more points were knocked off by the judges. Effort must be made to avoid addition of small tail pieces.

Salmon: The N.F.I. judges here reported they tallied very closely with the evaluation by lab men. Same workmanship problem exists as with halibut packages, but there was also a variation in quality of odor and flavor.

Rockfish: Evaluation was difficult because of different species. In order to score these products accurately, new standards more specifically applied to West Coast fish must be established.

Sole: Some very excellent samples were found, while a few samples were down-graded due to a flavor variation apparently caused by washing before packaging. Dipped sole is not recommended because of resultant increase of sodium content. Flavor and odor in the cooked-product study was noticeably better from samples taken on warehouse level. Fillets must be packaged very carefully to prevent voids within the package that cause dehydration while frozen product is stored.

Among concluding discussions, it was mentioned that much consideration is being given to new vacuum-pack methods with frozen fish.



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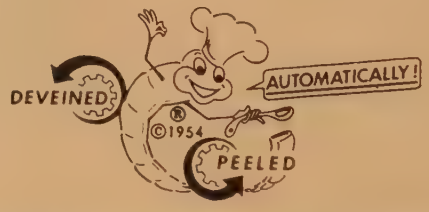

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At the Salmon Cutting—Norman Sorensen, president of the National Canners Association, between George E. Steele, Jr., director, N.C.A. Fish Products Division, left; and George Johansen, secretary-treasurer of the Alaska Fishermen's Union, pause for a moment during their examination of the hundreds of cans opened for inspection at the annual Salmon Cutting in Seattle.

Brilliance of 1958 Reds Features Salmon Cutting

● Stand-out revelations of the 21st Annual Canned Salmon Cutting held at Seattle March 10 were:

1. Brilliant color of the Alaska Reds of 1958 packing; and

2. The remarkably good quality of the 18 Japanese samples displayed.

Examination of more than 700 cans by teams of production and marketing experts determined that the pack of 1958 compared closely with that of 1957 in an overall way, with superior inherent quality depreciated to average level by faults of workmanship.

With basic quality possibly somewhat above average, the brilliant color of Alaska Reds of 1958 was spectacular.

Short salting, with some cans lacking any salt, was the most significant single fault reported by the judges.

● For the first time in the history of the cuttings, samples of Japanese high seas salmon were displayed in Reds, Pinks and Chums.

Inspectors were in general agreement that the oil, color and workmanship were excellent. A distinctive flavor, apparently characteristic of immature or feeding fish, was noted in the Pinks and Chums; but not in the Reds.

Principal adverse criticism of the otherwise superior Japanese salmon was concerned with the small size of the fish. This necessarily resulted in the inclusion of more pieces, with more included skin, than is welcomed by the American market.

● Committee in charge of the cutting was chairmanned by A. W. Brindle and included Charles D. Alhadeff, Harry R. Beard, L. P. Callahan, Harlan G. Cheyne, W. C. Coyne, Donald M. Cosgrove, Louis Germain, Edward Gunz, Harold G. Heaton, Dr. G. Ivor Jones, Richard B. Lee, Scott McLeod, Morris E. Nelson, J. B. Stiles and Walter V. Yonker.

Species chaimen were:

Chinooks and Kings—Vernon Paulson and A. J. L'Amie.

Reds and Sockeyes—Jack Wolf and R. O. Pierce.

Cohoes — J. R. Doran and Robert Pride.

Pinks — Eric Bulmer and Eldon Grimes.

Chums — S. T. Olson and W. C. Hingston.

● The judges and their company affiliations included:

Alaska Packers Association — Jack Wolf, Andrew Andersen, Herman Bisom, Fred W. Butler, John M. Cuthill, Lee Higgerson, Eugene E. Hill, Vernon Hilliker, Arthur James, Olaf C. Knutson, Alf Nelson, N. S. Rockness, Ronald Tullis, Sam W. Wolff.

Alaska Year Round Canneries Company — Arthur D. Aspaas, J. W. DeChamplain.

Allen Sales Company—A. E. Allen, Jr.

American Packing Company—Jack Bowman, Chris T. Johnson.

Bellingham Canning Company — M. C. Bristol, Robert Welsh, Warren E. Welsh.

Berman Packing Company — Russ Bertoson.

Chignik Fisheries Company — William Dolphin, R. M. McFarland.

Columbia River Packers Association, Inc.—A. J. L'Amie, Scott McLeod, J. R. Doran.

Copper River Co-op Company, Inc. —J. H. Clemence, W. J. Clemence.

Deming and Gould Company — Robert Pride, Philip T. Campbell, C. V. Hazel.

Egegik Packing Company—Jim Ja-

(Continued on page 48)

Skeena Controls Modified

● Original proposals for the regulation of the Skeena River's salmon fishery this year have been modified to some extent as a result of protests voiced by fishermen and operators.

The Skeena Salmon Management Committee, composed of A. J. Whitmore and Dr. A. W. H. Needler, with F. C. Withler in charge of investigations, has now recommended to the department of fisheries that the opening of Sockeye fishing be delayed from 6 p.m. on June 28 to 6 p.m. July 5, but that from 6 p.m. July 5 to 6 p.m. July 26 the weekly closed time should be shortened from 120 to 106 hours.

Fishing for Skeena Sockeye during the week prior to July 5 would be considered only if their abundance were great enough to warrant fishing without jeopardizing the rehabilitation of depleted early runs to Babine Lake.

The committee emphasized that the Sockeye run this year will probably be substantially less than the 1958 run. The 1959 four-year olds will be the progeny of the slide-depressed 1955 spawning run of 100,000 fish; hence not more than a small return of this age-group can be expected. The 1959 run of five-year olds is expected to be only moderate, based on the abundance of parent spawners, the resultant Babine smolt run and the appearance of four year-olds of this brood in the 1958 run. Since "fives" tend to run earlier than "fours," any surplus for fishing could be expected to occur during the middle part of the Sockeye season, rather than late, according to the committee's calculations.

While the need to conserve and rehabilitate was fully recognized by fishermen and operators, most of them felt that the 48-hour fishing weeks originally suggested would be so short as to work hardship on the industry as a whole.

It is expected that the 1959 run of Pinks on the Skeena will be similar in abundance to that of the parent year.

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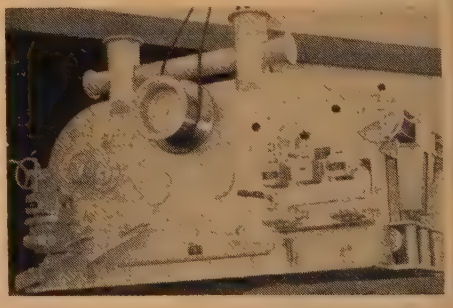

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PACIFIC Fisherman's NEWS

APRIL 1959

Second Trawler Founders; Four Lives are Lost

● Second Seattle trawler to founder during the first quarter of 1959, the Alaska-limit craft *Midway*, empty and returning to Seattle after discharging her fare at Bellingham, capsized and sank in Puget Sound off Point Partridge March 9.

All of her crew of four were lost.

There were no witnesses to the tragedy, but a violent squall, with small craft warnings posted, centered in the treacherous Point Partridge-Point Wilson area about the time the *Midway* was due there.

Later her capsized hull was seen by another fisherman, who called the Coast Guard. Patrol vessels arrived, but the hull sank before a line could be gotten on it. There was no sign of the four men:

Capt. Bjarne Olsen, John Eikevik, Carl Jensen and Simon K. Ingebretsen, all of Seattle.

The vessel, which was built in 1945, was owned by Albert A. Andersen, who had contracted to sell the craft immediately upon her return to Seattle. His brother Howard had been drowned in a fishing vessel accident off Point Partridge in 1935.

The Seattle fishing vessel *Gony* was destroyed by the surf when it was beached near Point Grenville, Wash., the middle of March. The men aboard, Edward B. Erickson and his son, Edward Jr., were saved from the surf by the U. S. Coast Guard.

Seine Tuna Catch Running Double 1958's Record Pace

● Last month the San Pedro purse seine fleet, which last year set a record for total tuna catch, seemed headed toward a new peak which may make the 1958 achievement look like peanuts.

From January 1 through March 14, the seiners' catch of tuna was reported by the USFWS Market News Service at 5,613 tons, compared with 2,215 for the same period in 1958.

This phenomenal 1959 early-season catch was more than double the corresponding figure for 1958.

Most of this fish, the Market News Service said, was being caught on the 450 Bank on the west side of the Gulf of California just inside the gulf's mouth.

Short Trips, Big Catches

● Some of the individual boats made records of which their skippers and crews can be justly proud.

At least two vessels — *Southern Pacfic* and *Western Fisher*—had made three trips between January 1 and mid-March. One vessel brought in over 600 tons in three trips. *Vagabond* made one of the shortest successful trips on record—eight days. *Santa Helena,* in her first trip as a reconverted seiner, was said to have caught 185 tons in one night's fishing. Her first trip was 35 days' duration.

For the record, *Southern Pacific* is commanded by Lou Brito; *Western Fisher* by Nick Radovich; Nick Mosich is skipper of *Vagabond,* and Frank Gargas commands *Santa Helena. Miss Universe,* commanded by Jerry Thomas, also made two outstandingly fast trips.

The week from March 8 to 14 was an outstanding early-season week, with 16 seiners landing 1,836 tons of tuna at San Pedro. Last year, only two vessels unloaded during that week.

Bait Boats Busy

● Although the seiners scored a big early-season *increase* this year over last, the bulk of the tuna was still being caught by the San Diego-based clipper fleet.

For the year up to March 14, 1959, the clippers had brought in 15,123 tons, which is pretty close to three times the seiners' 5,613 total.

The clippers did better in 1958, however, when they had caught 19,867 tons for the January 1-March 14 period. The 1959 catch represents a decline for the period of 4,784 tons or 24%. All statistics quoted are from the Market News Service.

Price Picks Up

● Prices at the American Tunaboat Association auctions in San Diego were around the $270-$230-per-ton

B. C. Union Undertakes Int'l Fishermen's Meet

Union fishermen from Russia and Japan as well as from Canada and the U. S. will attend a conference in Vancouver, B. C., if plans announced by the United Fishermen and Allied Workers materialize.

Officials of the UFAW announced at the annual meeting in Vancouver that the Food Workers' Union in Soviet Russia has agreed to send delegates and it has invited the Canadian union to send representatives across the Pacific this summer to see how the Russian fishing industry is carried on.

An agenda for the proposed Vancouver meeting has been submitted to fishermen in Japan, Alaska, Washington, California and Oregon and Russia.

Japanese have also indicated readiness to attend, and it is expected that there will be lively discussion of high seas fisheries in the North Pacific.

Japanese Tunaman Lands Second Argentine Trip

The Japanese tuna fishing vessel *Eisei Maru* fishing out of Mar del Plata, Argentine, and under contract to the Mar del Plata Chamber of Fish Industries, landed its second trip of tuna in February. The trip of 130 metric tons, consisting of Yellowfin, Big-Eyed, and Albacore tuna, was caught in the St. Helena Island area. The trip also included some swordfish.

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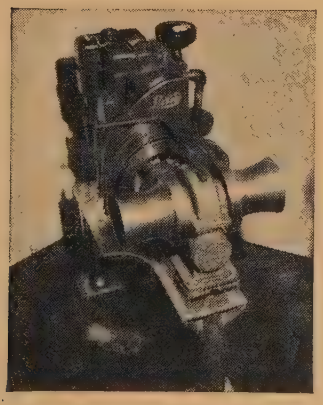

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William B. Freeman .....President
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Fish Net Maker Visits Americas

Kazuo Momoi, vice president and managing director of Momoi Fish Net Manufacturing Co., Ako, Japan, one of the largest fish net makers in the world, is due to visit the United States this month. His company maintains an American headquarters in Los Angeles under the management of **Ben Ichiyasu,** distributing its proprietary "Marlon" net, and netting of many other blends and fibers, through leading American fishery suppliers. Mr. Momoi is shown here in the foreground as he conducted **DeWitt Gilbert,** editor of **Pacific Fisherman,** through the Momoi factory at Ako recently.

level, but bidding was not what you would call brisk. The March 18 auction brought a high of $271 for Yellowfin, while the high for Skipjack was $230. The price for Skipjack in one trip was cut three ways: a $225 base price, $230 a ton for fish between seven and ten lbs. weight, and $232 a ton for fish over ten lbs. Usually only two prices are quoted, a base price and a premium for fish over seven lbs.

American Tuna Canning, Inc., which recently purchased the South Coast Fisheries cannery on Terminal Island, was the successful bidder for two of the three trips sold at the March 18 auction.

These prices represent considerable softening when compared with the same prices last year at the same time, when Yellowfish sold for $276 to $284 and Skipjack brought $236 to $244. But then, the catches last year weren't up to this year's totals either, nor were the imports.

Frozen Tuna Imports Jump

● Imports for the first two and a half months of 1959 were really up there, with a total of 17,841 tons, highest recorded for the period since 1955.

Last year at this time only 11,270 tons had come in from abroad. The increase this year over last is 6,571 tons or 58%. More than half again as much fish was imported this year between January 1 and March 15 than last year.

For the early season, the import total was by far the biggest in the five years for which the Market News Service publishes figures. Biggest previous year was 1957 when imports totaled 13,321 for the period. In 1958, with American fishermen's organizations in Washington making strong representations for import controls, the imports fell to 11,270 tons, lowest level in the five-year history.

It was considered significant, too, that this year Yellowfin accounts for more than two-thirds the total imports fell to 11,270 tons, lowest level in the five-year history.

It was considered significant, too, that this year Yellowfin accounts for more than two-thirds the total imports of tuna. The proportion of Yellowfin imports to Albacore imports has been increasing unsteadily in five years, but this year, as against last, Yellowfin really jumped into dominance.

For the period January 1 to March 14, inclusive, 1959, Albacore imports totaled, 602 tons, Yellowfin 12,025, and Skipjack 2,224.

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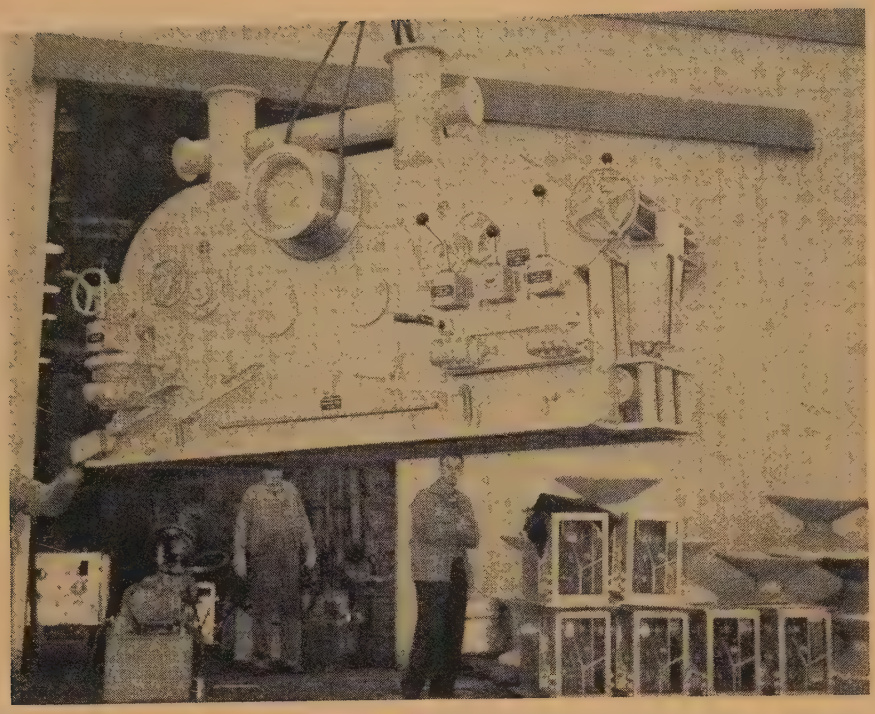

Giant Purse Winch, believed to be the largest ever built, is raised for loading at the Marine Construction & Design Co. plant, Seattle, for shipment to San Diego, where it will be installed on the converted clipper **Ruthie B.,** which is being equipped for seining. The winch, which weighs five tons, is hydraulic-powered throughout; as are three other small winches supplied to handle the vessel's boom and Power-Block, and to swing the boom.

Indian Ocean Tuna Yield From New Areas Soaring

● Strong recovery of Indian Ocean tuna productivity is one of the stimulating influences in the Japanese fishing industry early in 1959.

This area — highly productive in 1954 and 1955—passed into a period of declining yield, which levelled-off early in 1958.

Then, late in 1958, and continuing strongly this year, vessels fishing the Indian Ocean have experienced excellent fishing over a wide area, and involving several species of tuna.

Partly responsible for the up-turn was the discovery of a new ground for Bluefin of the type known by the Japanese as "bluefin Indo." Whether this is a sub-species or a type has not yet been decided by scientists.

This productive area was discovered in October, 1958, by *Kainan Maru,* the research vessel of Kochi Prefecture, which encountered very favorable fishing along Latitude 25° South, running westerly from Australia. This sector has been yielding heavily since to a growing fleet of clippers of the 180 to 350-ton sizes.

The catch per boat is said to run from 10 to 18 tons daily, with most of the fish going to the markets at Yaizu, Shimzu and Misaki.

The Bluefin Indo from this particular area are said to be of superior quality, far ahead of Bluefin from other sectors of the Indian Ocean; and they command fancy prices in the Japanese market. The Bluefin Indo are not now being used for freezing or canning, but are taken avidly by the domestic market for sashimi, raw tuna greatly relished by the Japanese.

This Bluefin Indo has been selling in the markets as high as Y500 per kilo. This is a fantastic price when it is considered that the best Yellowfin for sashimi commands about Y200 per kilo.

● Albacore grounds discovered in the east offing of Madagascar continue to yield heavily to the Japanese fleet after more than nine months since discovery.

Another rich ground in the Arabian Sea along Lat. 10° is said to yield Yellowfin and Blue Marlin particularly.

Thus in 1959 the Indian Ocean appears to have re-established as a source of tuna for the Japanese fleet as result of the discovery of new productive areas.

Largest Hydraulic Purse Winch Built by Marco

Believed to be the largest hydraulic purse seine winch ever constructed, a huge machine was shipped to San Diego recently by Marine Construction & Design Co., which built the winch for installation aboard the *Ruthie B.,* one of the giant clipper-to-seiner conversions which are making history in the tuna fishery.

Effectiveness of these immense seiners for tuna results from two factors: the development of nylon seines; and the Puretic power block, which makes it possible to handle nets from 380 to 500 fathoms long and 30 to 50 fathoms deep.

Even so, handling these huge nets imposes a heavy power demand, which must be applied flexibly. Thus the Marco winch is engineered around hydraulic drives which bring the net aboard readily and without damage under any conditions of sea in which fishing is possible; or the strains and pressure produced by heavy fishing.

The two pursing drums on the March winch are individually controlled for speed, power and braking.

In addition to the Marco purse winch and the Puretic power block, the *Ruthie B.* is also equipped with a pair of Marco winches for swinging the boom and a Marco boom-topping winch. All of these items are hydraulically driven from a Marco pumping unit.

The *Ruthie B.* is fishing for Star-Kist Foods, Inc., under command of Capt. Butch Zuanich, one of the best-known fish-getters in the tuna seine fleet.

Heavy Tuna Longline Catches in Atlantic

Exceptionally heavy winter tuna fishing was encountered in January and February in the Gulf Stream off the Atlantic Coast by the Bureau of Commercial Fisheries research vessel *Delaware.*

The best fishing was found in the Stream east of the coast from Delaware Bay south to Albemarle Sound. At one station five tons of tuna were taken on only 60 baskets of gear in one set.

This was the first time that commercial catches of such character had been made in the winter months.

Although Bluefin were most abundant in the catches, Skipjack, Yellowfin, Albacore and Bigeye tuna also were taken.

Water temperatures ranged up to 74.2° despite the fact that it was midwinter.

STANDARD ENGINEER'S FIELD REPORT

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Skipper and owner Anthony Cresci (right) points to oil pressure gauge which registers a steady 25 lb. psi at normal and high speeds and 15 lb. psi while idling, indicating excellent condition of Atlas Marine Diesel. Says Mr. Cresci: "We've used nothing but RPM DELO in this engine since it was new, 13 years ago. We feel DELO is the best possible oil to use in this type of service, and the condition of the engine proves we are right." The Cresci family has used Standard products aboard their fishing boats since 1919.

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OSWALD MACHINE WORKS 2936 Hyde Street San Francisco 9, California

Coos Bay Seafoods is the new name of this plant, purchased this spring from Chas. Feller, for many years the leading fisheries factor on Coos Bay. It is being thoroughly modernized for fillet production by its new owners, headed by James Kindred.

AREA REPORT —

Coos Bay

Hits the Comeback Trail

● Coos Bay is set for a comeback to higher levels as an active factor in industrial fishing.

It's a question of improved facilities, backed by new, aggressive management, successfully experienced in present day fish products distribution.

A beginning was made last year, when the Fishermen's Cooperative Association established its modern receiving, packing and distribution station at Charleston.

Second strong step followed this spring when Coos Bay Seafoods Co., composed of the same principals as Astoria Seafoods Co., arrived.

This firm, which is headed by James Kindred, purchased the plant and business of Charles Feller, Inc., which for many years had been the principal factor in the field.

With Ralph Lindsay as resident manager, Coos Bay Seafoods Co. is actively rehabilitating its property, and when it was visited by a *Pacific Fisherman* staffer the middle of March it was expected that the plant would be actively filleting fish by early April.

● Initial improvements in the Coos Bay Seafoods property involve general rehabilitation, with a full concrete floor; a stainless steel fillet line; modern trommel washer, elevators and bins for handling trawl fish.

Later it is anticipated that the plant will be equipped for holding its deliveries in refrigerated brine after the manner employed in the Astoria plant of the related Astoria Seafoods Co. Mr. Kindred and Mr. Lindsay report full satisfaction with the refrigerated brine method, which they find reduced handling costs, as well as wear and tear on the fish. Recovery is better, and fillet quality better, they believe, where the fish are carried in virtual suspension in refrigerated solution the same salinity as seawater, and thus are not subject to pressure.

● In addition to fillets, the Coos Bay Seafoods plant also is expected to handle some salmon, halibut, shad, and particularly striped bass. This last is important inasmuch as Coos Bay and the adjacent Umpqua River are the only significant commercial sources of striped bass on the Pacific Coast since California classified stripers as game fish and forbade their sale.

● Fishermen's Cooperative Association's Coos Bay plant at Charleston packed crabs during the early spring period prior to the opening of salmon trolling—but scarcity of crabs limited activities.

Fred Bullock is in charge at this thoroughly modern plant, located inside the breakwater enclosing the Coos Bay small boat haven. Crab picking is done on the second story, while salmon grading, icing, shipping and holding, as well as crab cooking and butchering, are all on the first floor.

The plant has five stainless steel crab cooking tanks in which cubical steel baskets of crabs are immersed.

The plant offers F.C.A. boats fuel as well as ice service, being a Texaco dealer. Its location immediately inside the entrance to Coos Bay makes it readily accessible to fishermen.

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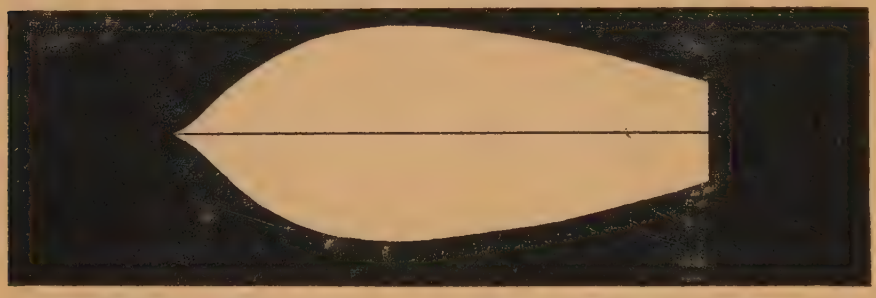
Practically at Sea at the entrance to Coos Bay, this new lay-out of the Fishermen's Cooperative Association provides a market, supplies, Texaco products, and all facilities to FCA members on the small craft basin at Charleston, Ore.

● Development of Coos Bay seems like a geographic and industrial "natural." Of course, the business there has been boomed before—and has declined again—but the rise of trawling and the new importance of crab and shrimp fishing encourage a new try.

With Coos Bay in the South, the Columbia River in the North, and Yaquina Bay roughly in the middle, the Oregon Coast will be adequately served by ports accessible in any reasonable weather, and adequately provided with parkets and plant facilities.

Trawling has been going on in a limited way out of Coos Bay for a number of years, but without any local filleting. Buyers have been shipping trawl fish as far as Astoria from Coos Bay. This is possible because the fish come to port from banks barely outside the bay, the draggers making day trips at times when fishing is good. It's a fact that much of the dragging out of Coos Bay thus far is done within a radius of 10 to 20 miles from the bar.



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CUT THE GEAR — NOT THE CABLE

● International incident arising out of the unexplained cutting of a trans-atlantic cable in an area where only a Soviet trawler was fishing.

And the subsequent board and inspection of that vessel by American naval forces, pointed-up dramatically the old problem of the trawl fisherman work-bottoms where these communications cables run.

It emphasized again the fact that the American Telephone & Telegraph Co. and its subsidiary Pacific Telephone & Telegraph Co. has a standing offer for all fishermen fouling a cable. It is this:

"Cut away the gear. Don't cut the cable. File a claim, and we'll buy you new gear."

This offer stands, even when the fault is wholly the fisherman's.

The telephone company will be glad to discuss with fishermen the sensitive areas, and where there is no likelihood of fishing fouling cables.

It costs a lot of money to find and repair a broken or damaged cable—not counting the interruption to communications. So the company says:

"Cut the gear. Don't cut the cable, and we'll buy you a new net."

Dogfish Bounty Sought In War on Predators

Full scale U.S. - Canadian assault upon the dogfish, a common fishery predator, is proposed in bounty legislation introduced in Congress by Senator Warren G. Magnuson of Washington.

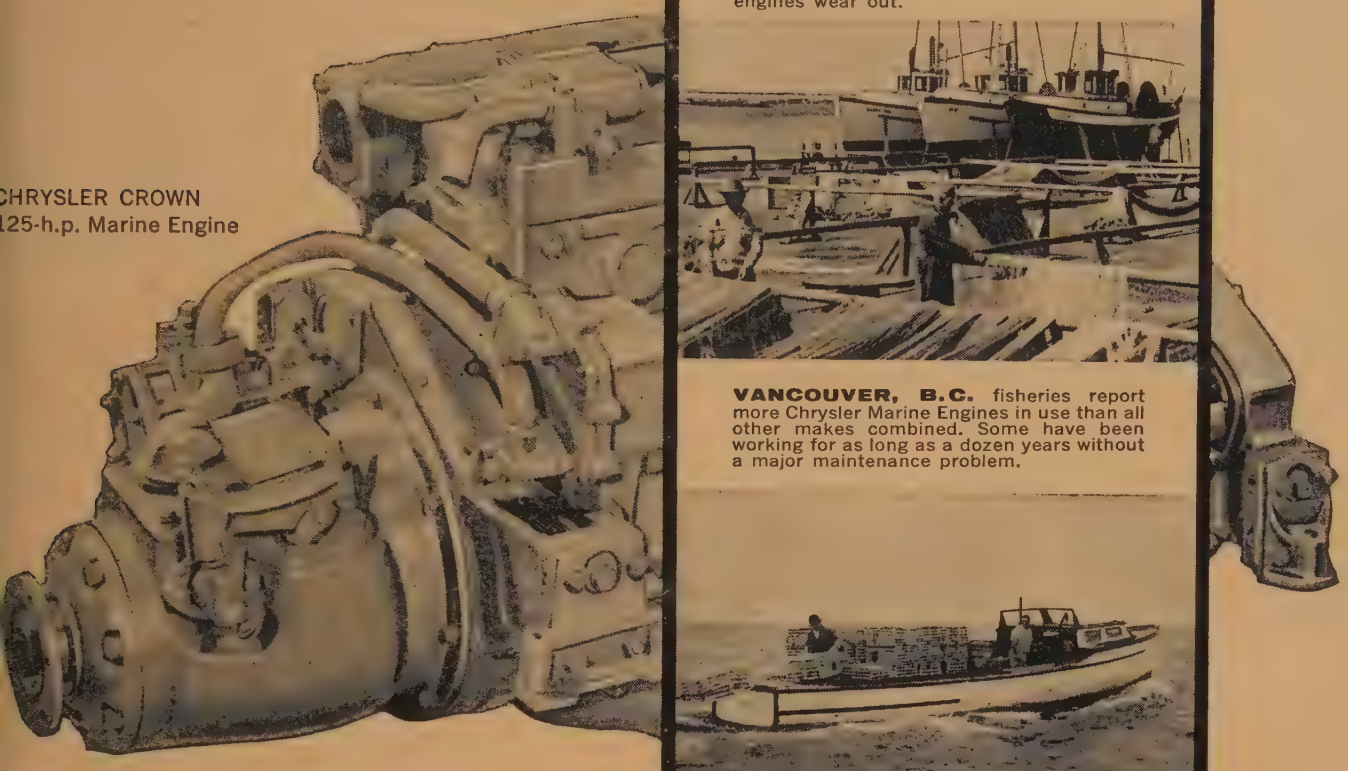
A dogfish bounty of $15 a ton or 15c a pound for the fish liver would be paid under the Magnuson measure.

Magnuson, chairman of Senate Interstate and Foreign Commerce Committee, explained that Canada already has approved similar bounty payments to "decimate the dogfish which tear and tangle nets and destroy tons of salmon annually."

Bounty payments would go "hand-in-hand" with the research program undertaken by a Magnuson measure adopted by the 85th Congress designed to open new markets for dogfish products and blueprint scope of the control problem faced.

Senator Magnuson pointed to a finding by the Pacific Coast Dogfish Shark Committee that "80 million pounds of dogfish must be eliminated annually in U.S. and Canadian waters in order to reduce the stocks to a point stabilizing the fisheries."

wherever fishing fleets put to sea . . .



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Oregon's Crab Scarcity Bewilders Pot Fishermen

● Serious shortage of crab prevailed this season along the Oregon coast.

From one boundary of the state to the other, fishermen and dealers reported crab scarce, small, lightly filled. In short, the Oregon coast was visited this spring with one of those strange cyclic swings which characterize Dungeness crab abundance.

Last year was fairly good; the 1957 season *excellent*.

Why? No good reason offers. Some say it was due to the warm surface waters which were observed off the coast in 1957 and 1958.

Sounds reasonable—except that the waters were warm off Northern California also; and crabbers out of Eureka and Trinidad and Crescent City have been having excellent fishing this year with the crabs big and fine; never better.

Northward from Oregon the situation was better, but not good. Willapa and Grays Harbor crabbers generally found fishing better than the boats delivering to the Columbia and Yaquina Bay.

Coos Bay seems the worst of all. Few boats were still fishing there by mid-March. Most of them were changing over in anticipation of the start of troll fishing.

● Cape Sebastian offered a strange story.

The crabs there have the reputation of being not only abundant but unusually large and fine. Boats out of Coos Bay and Port Orford, working the vicinity of Cape Sebastian in 1958, found the kind of crabbing you dream about.

This year the same boats went back to the same area. They found dream fishing again, but it was the nightmare kind. Almost no crabs. Not just scarce; missing.

Depletion? Not a fisherman or dealer thinks that possible—and the biologists agree with them.

It's hard to see how, with relatively consistent and even fishing pressure, such fluctuation from year to year can be blamed on depletion. First, there's the escape ring built into the pots, which permits the escape of undersized crabs. Then there's the well-enforced rule against landing female crabs—enforced by the good sense of the fishermen themselves. Finally, there's the known fact that one male crab will serve several females in a season.

Some fishermen, pointing to the small size of the crabs being taken in the areas of poorest fishing, believe that the poor catches result from malnutrition and that this year's crop of crabs of the age which usually gives crabs of legal size consists in abnormal degree of runts which pass through the escape rings of the post. Maybe so.

● Result of all this is a distinct shortage of crab products all along the coast, and whether you're interested in whole fresh crabs, eviscerated frozen crabs, fresh crab meat, frozen crab meat, canned crab, the supply is short and prices firm.

Home-Built Gillnetter To Fish in Alaska

Henry A. (Al) Tooley, Astoria fisherman, in March launched a new 33' Fraser River-type reel gillnetter which he had built at his home over a two-year period. He plans to fish the craft —the seventh boat he has built himself—in Alaska this summer.

Beam of the vessel is 10'-10" and it is powered with a 125-hp. Chrysler Crown engine turning a Coolidge wheel through a 3.171:1 reduction.

"New Hope" Gets New Diesel Power Plant

A 200-hp. Caterpillar diesel engine was installed last month in Capt. George Moskovita's 82' trawler *New Hope* at Astoria. The work was done by Astoria Marine Construction Co. and the vessel was ready for fishing by the first of April.

"Farvels Tag" and Boat Parade Set For April 19

● *"Farvels Tag"*—Day of Farewell to the Seattle halibut fleet falls on Sunday, April 19, this year and will be observed as in the past by a Halibut Boat Parade and other features sponsored by the Halibut Fishermen's Wives Association.

The program this year is in the hands of Mrs. John Jorgensen and Mrs. Harold Toft.

The parade will assemble on the Lake Washington Canal between the Fishermen's Dock and the Ballard Oil Dock, proceeding to the Locks for a brief ceremony. Then the vessels will be locked down to salt water and will parade around West Point and Magnolia Bluff into Elliott Bay, where they will circle the harbor.

Other events already calendared by the H.F.W.A. include: May 8, luncheon and fashion show, Skipper's Restaurant; May 17-23, Halibut Week (timed to coincide with the arrival of the season's first heavy landings); May 22, coronation of the Halibut Queen; July 31, halibut barbecue for Haliballoo.

Pacific Trollers Assn. Weathers Difficult Year

Pacific Trollers Association, with head office at 193 East Hastings Street, Vancouver, B. C., has come through a difficult but successful year, according to a report to members from President Hans Haus.

"The organizational pains are many where a new association is concerned," states Mr. Haus, "particularly one which extends over the whole coast. Experience and trial and error are the main teachers, but from these we are gradually emerging with a set pattern of operation."

The new organization has been active in fisheries activities in B. C., and during the past year locals have been established at Westview and Campbell River to give consideration to various problems confronting the industry generally and trollers particularly.

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Soviet Demands Drastic

Japanese Curtailment on High Seas

● U.S.S.R. slammed a staggering curtailment proposal for Japan on the Tokyo conference table early in March—and then modified it substantially March 25—but at presstime the Japanese conferees were still rejecting the Soviet program as impossibly severe. The Soviet Union, on its part, was declining to disclose its ideas for an overall 1959 high seas salmon catch quota until understanding was reached on the questions of fishing areas and seasons.

The *original* Soviet proposals were unbelievably favorable from the United States' point of view. They would have forbidden any Japanese fishing east of 170° East Longitude—which is exactly in line with the United States' request of Japan. (This is shown in Sketch Map No. 1, accompanying.)

On March 25 the U.S.S.R. section submitted a revised proposal which would create a fishing area for Japan between 175° East Longitude and 175° West—and extending north of the Aleutian Chain to the Siberian mainland—the sensitive area for Red salmon of Alaskan origin. (See additional area in Sketch Map No. 2.)

● In addition to providing for the mid-ocean Area No. 5—where the Japanese would be able to concentrate their fishing on Alaska Reds during the early part of the fishing season, the revised Russian proposals contemplated minor eastward extension of Areas 1 and 4.

To presstime no information was available as to the Soviet proposal for fishing season in Area 5, immediately west of the Abstention Line; nor as to any catch quota for high seas fishing generally.

● Japan apparently has abandoned hope of securing re-opening of the Okhotsk Sea to fishing this year, as its most recent proposals contemplate closure of that enormous high seas area, as well as a narrow belt along the east coast of Kamchatka, coinciding approximately with the Pacific Ocean closed area in effect in 1958.

● Soviet proposal would sharply curtail Japanese fishing *time* as well as *water*.

Fishing would be permitted only *from June* 15 in the three northerly areas, *ending July* 20 in the most northerly; *and July* 31 in the two others.

In the southernmost sub-area, reserved for land-based gillnetters, the season would run from *June* 1 *to July* 20.

In 1958 *the season started May* 11 *and closed August* 10.

● U.S.S.R. also proposed severe *quantitative* limitation on Japan's fishing, with a Red salmon quota of 10,000 metric tons, about 5,000,000 salmon. In 1958 Japan's Red catch was about 25,000 tons.

● Japan's reaction to the Soviet proposals was one of staggered unbelief. High officials called them "surprisingly stern," "beyond ordinary reasoning," "a strange thing."

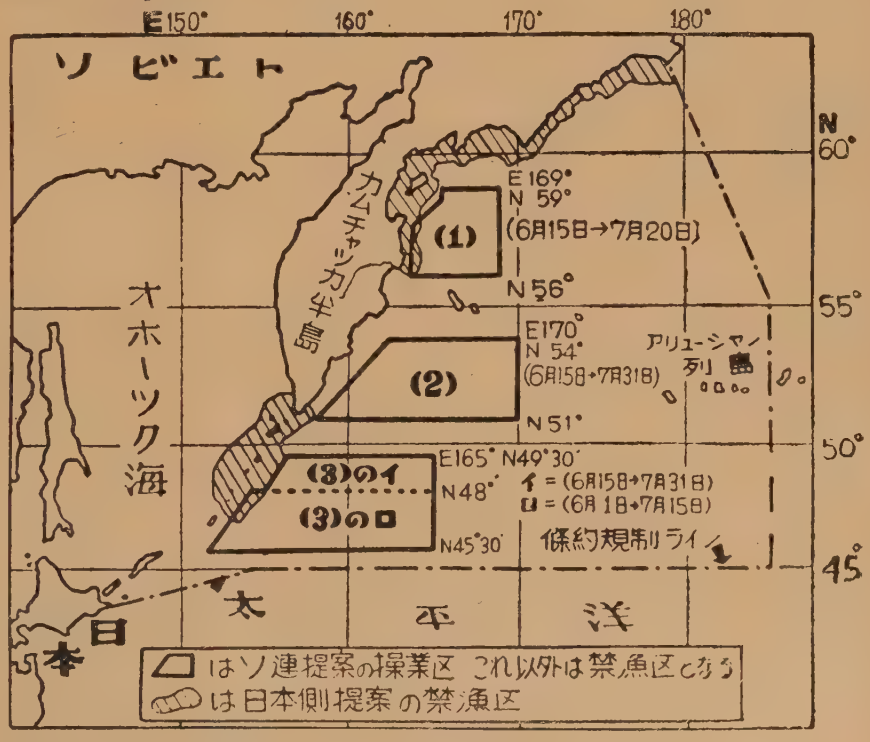
The second called for extension of the season by five days to August 15, with no specified opening date.

● About a week after announcement of their main proposals, the Soviet delegates offered two additional points:

1. Salmon escaping Japanese nets are often seriously injured by the fine twine, which is only 0.015 of the size of the mesh. The Russians thought the yarn should be 0.020 of the mesh size. (Subsequently agreement was reached that in the future gear would be composed of heavier twine, with the present maximum diameter of 0.822 mm. the minimum to be permisible in future.)

2. Immature Red salmon should comprise less than 10% of the Japanese catch. (The Soviets contended that the Japanese catch in the past has consisted of immatures to 50% of the total. The Japanese said that in 1958 the immatures intermingled in the catch were only 13%, and 10% in 1957).

Sketch Map No. 1—



Original Soviet fishing proposal for the Japanese.
Area 1—Lat. N 56 to 59; east to 169 E Long.—Season, June 15-July 20.
Area 2—Lat. N 51 to 54; east to 170 E Long.—Season, June 15-July 31.
Area 3—Lat. N 45½ to 49½; east to 165 E Long.—North 1/3, season, June 15-July 31; South 2/3, shore-based gillnets only, season June 1-July15.

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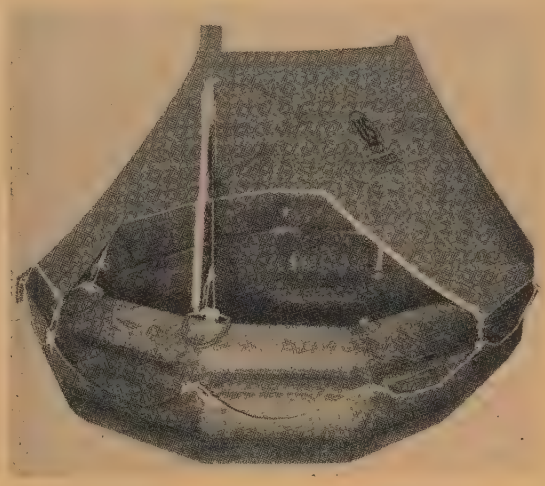

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● Justifying the Soviet Union's position, P. Moiseev, chief of the Russian delegation said in a public statement:

"Some Japanese believe the Soviet is thinking of an overall prohibition of Japanese high seas operations. The fishing areas we have proposed cover 230,000 square miles, equal to the whole of the Japan Sea. We think the Japanese may catch in these enclosures about 70% of their latest three-year average. We *recognize* the high seas operation by the Japanese. We do not prohibit it." (A dig at the United States and Canada.)

He went on more specifically:

"In the past three years the Japanese high seas operation has been conducted in a way inconsistent with the protection of the salmon resources, which are now showing depletion. Of the total catch made by the Japanese, as much as 70% consisted of immature fish.

"The fishing areas we have proposed are where mature fish congregate. The areas we have closed are places frequented by immature fish, or the route favored by spawning migrants . . .

"In 1958 the number of Red Salmon reaching the spawning beds in the Lake Kurile system (at the southern tip of the Kamchatka Peninsula) was 1/5 the average number each year in the 1950-52 period.

"The number of Red salmon taken in the entire coastal fishery of Kamchatka in 1958 was only 10% of that in 1957.

"Our control measures on Red salmon seeks to rehabilitate the source from such conditions.

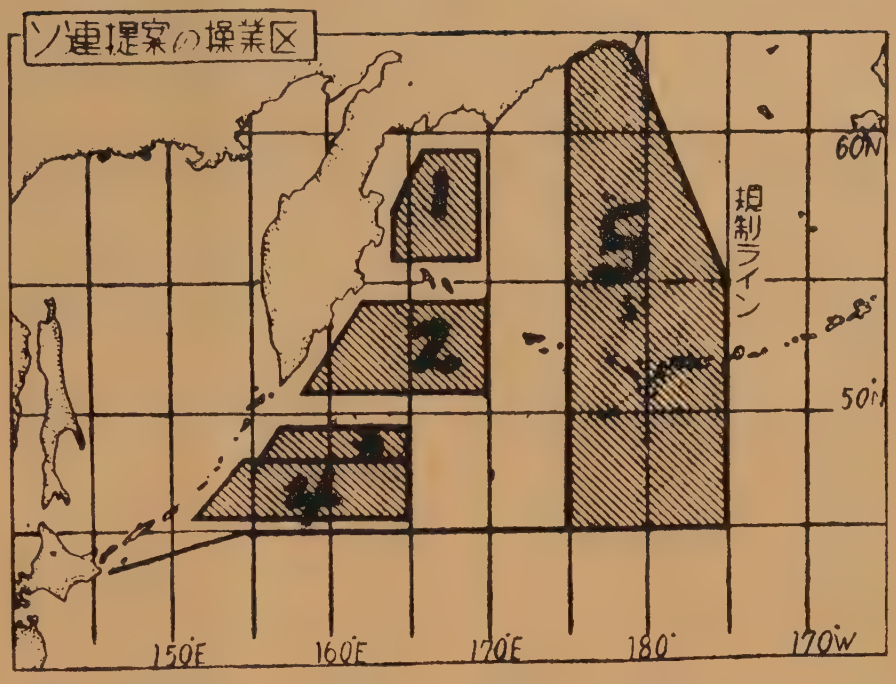
"Unless such measures are applied immediately, the salmon resources of the northwestern Pacific will be exterminated in a few years.

"This commission has a mission to determine on the basis of scientific observations the total catch quota which may be taken without destroying the resource. This problem should not be solved politically. We are to propose the quota after the deliberations on the control measures are concluded."

(It will be noted that in this last sentence Moiseev makes it plain that the U.S.S.R. expects to propose an overall high seas catch quota on the Japanese, applicable to all species, and in addition to the specific limitation of 10,000 metric tons of Red salmon).

● Longline fishing for salmon was also attacked by the Soviets, but their formal position was withdrawn when the Japanese announced that no hook-and line fishing for salmon would be allowed in USSR-Japan treaty waters in 1959; and that expansion of this type of fishery is deemed undesirable by the government of Japan, although limited operations by coastal fishermen outside the treaty waters would be permitted for 1959.

Sketch Map No. 2—



Modified proposals submitted to Japan by the Soviet section March 25 included Area No. 5, shown here. This is the sensitive area of the North Pacific and Bering Sea so far as Red salmon of Alaska origin are concerned.

Canco Promotes Sargent To Seattle Sales Chief

C. F. Sargent has been named Seattle district sales manager for the American Can Company, it was announced by Alexander Black, Western Area manager of sales for the container-making firm. He succeeds William Flynn, promoted to a California responsibility.

Mr. Sargent, formerly a sales representative, has been a well-known figure in container circles in the Northwest and Alaska for many years. He joined Canco in 1950 as a sales assistant and has been on duty in the firm's Seattle sales office since 1956.

The newly-designated district manager will supervise selling activities for the container-making firm in Alaska, Washington and Northern Idaho.

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Paramount, newly-converted purse seiner, acquired two new skiffs during her conversion. She will carry a 28' net skiff powered with a six-cylinder 100-hp. Ford Osco motor, and an 18' skiff with a four-cylinder 67-hp. Ford Osco. Both skills were built by Mardesich Cabinet & Boat Works, San Pedro. The skipper of the new *Paramount* is Anton Misetich, former commander of the *Anthony M.*

The *Southern Queen,* converted into a seiner by Diesel Service and Barbour Boat & Yacht Co. of San Pedro, will ship a Mardesich-built 28-ft. skiff with a six-cylinder 100-hp. Ford Osco. She is 100 ft. long, capacity 160 tons.

The motors were supplied through Fellows & Stewart of Terminal Island, Calif.

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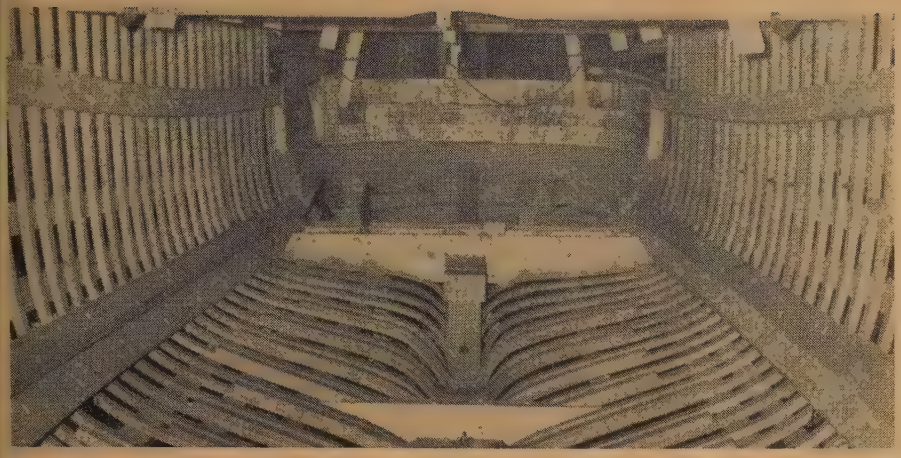

Inside Secrets of Canadian gillnetter, as produced by Matsumoto Shipyards, Dollarton, B. C. Note the heavy sawn-timber stern horseshoe characteristic of Canadian construction, and particularly valuable in drum gillnetters.

B. C. Follows Rich Season With a Bulge in Building

● British Columbia boat building is active this spring, following the most profitable fishing year in B.C. history —1958.

With the rich results of last year's fishing to work with, Canadian fishermen are improving their equipment and pressing their preparations, not in expectation of a repeat Bonanza this year—but just to be ready when another one comes in the mysterious revolutions of the salmon cycles.

The new craft a-building above Lat. 49° N to a considerable degree are in the super-gillnet class, with at least one of the big steel seiners which have built a new empire for Canada in the salmon and herring fisheries.

● *John Manly Ltd., New Westminster*—Two large steel fishing vessels are being completed here. On is a 76 ft. seiner for Lars Iversen and Olav Rorstad, with the Canadian Fishing Co. Designed by Robert Allan, naval architect of Vancouver, the steel seiner has 21 ft. beam and is powered by a 250-hp. Waukesha marine diesel from Northern Engine & Equipment Co., now the Waukesha distributor for B.C. Carrying capacity is about 130 tons.

Manly is also building a 47′ packer for Engvald Heggen of New Westminster, 14′ beam, powered with a 6-71 GM diesel.

● *A. C. Benson Shipyards Ltd., Vancouver*—Three major fishing vessel repairs here include lengthening of the trawler *Shanon M.*, putting a new house on the 65′ seiner *Estep*, and building a new keel on the 62′ seiner *B.C. Producer*, powered with a GM 6-110 diesel. The job on the *Shannon M.* involves a 10′ lengthening of hull after a rebuild in which she was divided amidships, with lengthening of the house as well as of the hull.

● *Matsumoto Shipyards Ltd., Dollarton*, north of Vancouver, is building two gillnetters. One 36′ by 10½′ craft shown is being powered by a 4-71 GM diesel from Hoffars Limited, with a 1½:1 reduction, and is for George Olafson of Prince Rupert. A 32′ by 11′ craft is being built now for Alaska operation, and will be different from both the U.S.-built Bristol Bay craft and the conventional B.C. gillnetters, but will embody some characteristics of both. Bent oak framing, red cedar planking, gumwood stem, yellow cedar timbers and mahogany cabin, glassed top, are construction materials for these boats. The yard also repaired 34′ gillnetters *Silver Crest* and *Lady Ritz;* also repairing cabin of 45′ halibut boat *R.W.*

● *Bisset & Gilstein*—This North Vancouver yard put new stem and bulwarks on the 40′ troller *Kulla.*

● *Sterling Shipyards, Vancouver,* is completing a large repair job on the 76′ seiner *Skardale,* for J. & H. Boat Co. Repairs after an accidental sinking up-coast include new stem and reinforcement of keel and other members. The yard, with five marine ways and cradles, now has about 50 vessels in.

● *Three Queens*, 28-ton and 54′ long, a fish packer five months of the year and tug the remaining months, is being repowered with a P&H model 687 marine diesel of 208-hp. at 1800 rpm, with Twin Disc 3-to-1 reduction.

Three Queens, recently purchased by Stradiotti, was built in 1929 and rebuilt in 1957 with enlarged shaft log and shaft, and new stern tube.

Veteran Fisherman Dies

Marko Gizdavcich, a veteran Columbia River fisherman, who gillnetted for the Columbia River Packers Association for 57 consecutive seasons, died in Portland early in 1959 at the age of 81.

His son, John Gizdavcich, is a vice president of the Columbia River Packers Association.

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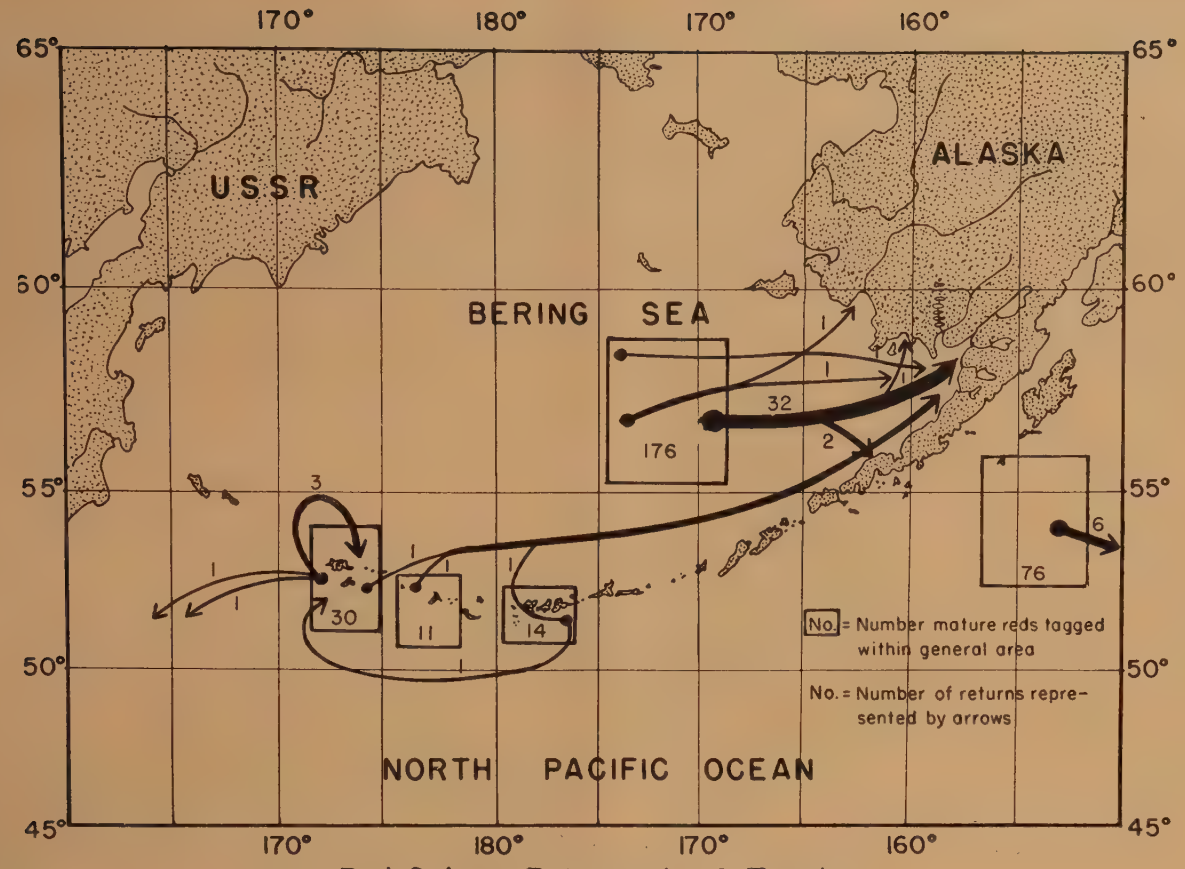

Red Salmon Returns - 1958 Tagging

What Can We Do About It?

—The F. R. I. Answers —

● Science gave some plain answers in March to the oft-repeated question:

What can be done about bringing the Alaska salmon fisheries back toward their former abundance?

The answers came from the staff of the Fisheries Research Institute of the University of Washington, reporting to the salmon industry which supports most of its studies in the annual Salmon Research Conference at Seattle March 11.

Details of the F.R.I. research program were presented in a handsomely printed booklet, while key staff men gave answers to the commanding question as they have been drawn from 14 years of scientific investigation in Alaska.

They offered no panacea, no sure-cure, no magic formula—but they did reveal some specific proposals to management for steps based upon long, intense, studious and objective research.

The staff appeared under new leadership, for this was the first Salmon Research Conference with Dr. William F. Royce as director of the Fisheries Research Institute, a position he assumed last summer following the retirement of Dr. William F. Thompson, founder, and first director of the F.R.I., as he was of the epochal research undertakings of the International Pacific Halibut Commission and the International Pacific Salmon Fisheries Commission.

Bristol Bay—Improve Spawners; Utilize More Males in Catch

● Three concrete proposals for improving the quality of Bristol Bay spawners were made by Dr. Ole A. Mathisen, Red Salmon Project leader.

These suggestions followed an analysis of Wood River Lakes conditions, which were considered significant for Bristol Bay as a whole.

Here it was shown that the index between *smolt abundance* and *returning adults* had been quite consistent; but that the relation between *escapement* and the resulting *seaward migration* was highly variable. For example:

The small escapement in 1952 *produced twice as many smolts as the large escapement in* 1955, *and* 12 *times as many per spawner.*

One cause of such variations is believed to be uneven escapement to the various lakes. Thus the upper Wood River lakes in recent years have had few spawners, where the lower lakes have perhaps been over-spawned in some years.

When this has occurred the resulting smolts migrating to sea have been below normal in size, and presumably in their ability to survive in the sea.

What to do?

Here are Dr. Mathisen's answers:

1. *Control escapement by reduced fishing pressure on those runs which, because they tend to "mill about" in the bay, are particularly vulnerable to*

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he effect of fishery. By this means more adequate seeding of the upper lakes could be achieved.

2. Seek a controlled escapement of approximately 500,000 Reds to the Wood River lakes of the Nushagak system, as under current conditions in the Bristol Bay area this escapement appears to produce optimum return.

3. *Utilize surplus males by increased net size which would take a larger proportion of male Reds, while permitting more females to escape.* Dr. Mathisen's own F.R.I. researches showed that satisfactory fertilization of eggs is obtained when the ratio of males to females is as great as 1 : 15. He does not advocate seeking such an unbalanced escapement, but believes utilization of a larger proportion of males than is at present the case would produce economic as well as biologic benefits.

John F. Roos, Chignik project leader, FRI.

First-Run Fish Are Best In Chignik's Spawners

● Seeking the reason why Chignik Red runs have continued to decline despite consistent and controlled escapement of 50% of the run to that system, John F. Roos proposed that:

1. *Escapement should be taken from the early run, in which the fish, or the lake to which they go, are more productive than the late run,* which spawns in the lower lake. This could be done by opening the season later, or by allowing more weekly closure during the early run.

2. *Do not substitute late-run, low-productive fish from the late run in years when the numbers of high-yield early fish are small.* To do so might offset the presumed high productivity of a relative small number of early spawners running to the fertile upper lake.

Mr. Roos offered a 1959 prediction of 850,000 Reds in the Chignik run.

Concentration on Kodiak Vital Studies Advised

● Pink salmon improvement and prediction, particularly on Kodiak Islands, but elsewhere as well, must depend upon securing positive answers to the questions:

What is proper escapement?

How can you secure it?

How to measure the effect of natural factors?

So Donald E. Bevan, Pink Salmon Project leader, told the Salmon Research Conference.

As a specific tool or method for providing an index of Pink salmon survival and productivity, he offered a determination of the numbers of eggs in the gravel.

Donald Bevan, Pink Salmon project leader, FRI.

This index proposal was offered after an examination of the critical complications involving Pink salmon, such as virtually immediate seaward migration following emergence; the odd-year and even-year streams; the multitude of Pink salmon streams, thus rendering spawner counts by means of towers or weirs impractical because of the expense.

Recommendation: a planned experiment in which Pink salmon escapement to several typical streams is closely controlled over several cycles to provide a practical measure of the optimum escapement, and the return it will produce.

Dr. R. L. Burgner, assistant director, FRI.

Protection in the Fresh Water Period of Vulnerability

● Possibilities of "doing something about it" during the fresh water period of special vulnerability was suggested by Dr. Robert L. Burgner, assistant director of the F.R.I., with reference to Pinks and Chums as well as Reds.

He suggested physical improvement of spawning gravels as a particularly promising field, and is flatly advocating economic and engineering studies of the possibility of *cultivating such gravels to wash away the fines which blind the gravel to water circulation.*

Dr. Burgner cited the demonstrated effectiveness of artificial spawning beds supplied with introduced water; and the remarkable productivity of

Two Million Research Dollars — Private, Industrial Dollars

● Two million dollars—private, industrial dollars — have been invested in scientific research directed at some of the basic problems of Alaska salmon biology since the salmon industry initiated its sponsorship of the Fisheries Research Institute in 1946.

So Aubin R. Barthold, chairman of the advisory committee to the Institute, told the salmon industry at its annual Research Conference in Seattle March 11.

He called 1958 "a milestone year," which saw the industry's investment in research pass the $2,000,000-mark; the reorganization of the Fisheries Research Institute within the University of Washington; the retirement of Dr. W. F. Thompson, founder of the institute and its director until he was succeded in mid-1958 by Dr. W. F. Royce.

● Reorganization of the Institute as an element of the College of Fisheries instead of the Graduate School of the University was explained by Dr. Richard Van Cleve, acting dean of the College, who declared: "The future of your raw material is the end-product of Fisheries Research Institute investigations. The F.R.I. will become the biological research arm of the College of Fisheries to the benefit of both. Thus the College will be able to draw upon the experienced personnel of the Institute, and to provide it with facilities and benefits."

Rich rewards which can flow from sound, stable and persistent salmon research are exemplified by the 1958 run to the Fraser River, Dr. Royce told the industry. He pointed out that the fishermen of the United States and Canada last year took fish worth approximately $30 million *at boatside prices* from a run which had been rebuilt from the depths of depletion on the basis provided by such research.

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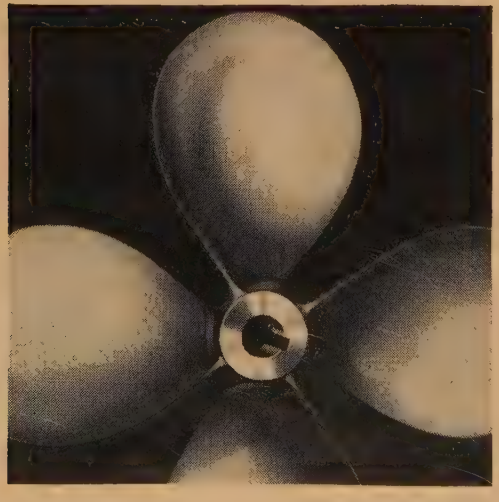

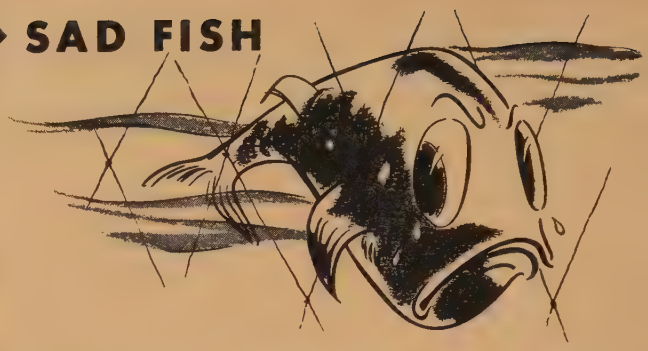

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only 300 acres of spawning gravels on the Adams River of the Fraser system.

● Lake spawning of Red salmon in some areas, and the vulnerability of such eggs to destruction by freezing in low-water winters was discussed by Dr. Burgner as a serious potential source of loss.

For this he offered a possible solution in the construction of low cost removable sills at the outlet of lakes favored for beach spawning, a possible solution which seems particularly applicable to some of the Wood River lakes.

Reds in their lake-dwelling phase are subject to several unfavorable factors which Man may learn to influence beneficially. These Dr. Burgner enumerated: 1, food supply; 2, predation; 3, disease; 4, competition.

He pointed particularly at the stickleback population in the Bristol Bay lake systems, where this species appears to offer serious competition to the young Red salmon in their fresh water phase. He showed by statistical tables the remarkable dominance of sticklebacks over young salmon in the upper Wood River lakes, which are also those in which the salmon population appears weakest in escapement, productivity, and perhaps survival.

Recommendation: Specific study of the stickleback and possible means by which its number could be controlled without damage to the Red salmon fingerlings for which it provides such severe competition.

Dr. Ole A. Mathisen, Red Salmon project leader, FRI.

Evidence Piles Up Against Sealions as Salmon Predators

● High seas salmon fishing operations under the F.R.I. North Pacific tagging contract is developing evidence of the sealions' destructiveness as salmon predators, Dr. Mathisen told the Research Conference.

Present information indicates a minimum of 145,000 sealions in Central and Western Alaska. They are found in greatest abundance in the areas where salmon runs are concentrated; and are always present on the high seas where the tagging vessels encounter salmon.

The salmon there thus are subject to year-round predation. Of the salmon taken for tagging, 2.4% bear injuries of the type known to be commonly inflicted by seal or sealion attack. The percentage which fail to escape the attacks is expected to equal or exceed those injured.

If it is assumed that only 1/20 of the sealions' food is salmon, their annual kill would equal the average commercial catch of all species of salmon in Central and Western Alaska.

Recommendation: development of commercial utilization of the sealion population, perhaps for domestic fur animal feeding.

(Dr. Royce indicated subsequently that commercial utilization of the sealions for this purpose probably will be undertaken in Western Alaska during the coming season.)

Fishing for Tagging Offers Clue to Abundance

● Catch per set of seine gear fished on the high seas to secure fish for tagging may provide a valuable by-prod-

F. R. I.
Nushagak Forecast No. 6

● Venturing a specific forecast of the Red salmon run to the Nushagak district of Bristol Bay for the sixth time —in spite of the uncertainty injected by the Japanese high seas fishery— the Fisheries Research Institute in March revealed its 1959 prediction:

2,400,000 Red Salmon, Total Run

This forecast, published at the annual Research Conference March 11 following the Salmon Cutting, was accompanied with this hedge:

"The limits within which this estimate may err are broad because of the following:

"1. Observations are too few to establish statistically the degree of reliability.

"2. The estimates are based on reduced Japanese high-seas fisheries similar to the 1958 operation, which may not be a sound assumption.

"3. Quality, in addition to quantity, of the smolts may play a role in survival.

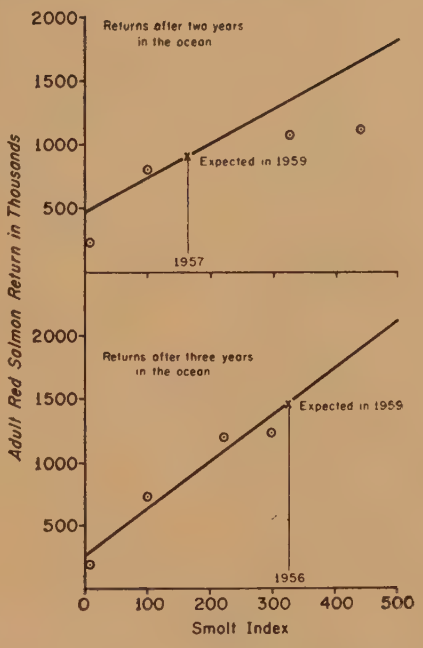
"4. The indices of abundance of returning adults were less accurate in earlier years of the studies."

● In 1958 the F.R.I. uttered a conditional forecast: (1) if the Japanese fishery proved heavy, 625,000 *fish in the run;* (2) if the Japanese fished the Bristol Bay run little or not at all, 2,780,000 *fish in the run.*

Actually, with the Japanese reducing their 1958 high seas Red catch to 8 million fish from 20 million in 1957, the 2,363,000-*fish actual run* to the Nushagak in 1958 proved acceptably close to the forecast under the second condition.

Of the 1958 run, 1,091,000 Reds, or 46% of the run, escaped to spawn.

● Research Institute comments adversely on the opinion of many in the industry that the fairly strong Nushagak run of 1958 was augmented by numbers of Naknek-Kvichak fish "blown" north and west by the heavy gales which prevailed during the migration.



The Institute says: "No significant numbers of Naknek-Kvichak fish could have been blown to Nushagak because the fish taken in the two areas were radically different in age"; as shown by the nuclear area of the scales.

● Surprising Pink salmon run to the Nushagak in 1958 was examined by the Fisheries Research Institute, which estimated a total run of 3.8 million fish, with at least 800,000 spawners on the grounds late in July, 1958.

The Pinks spawned almost exclusively in the Nuyakuk River between Tikchik Lake and the Nushagak River.

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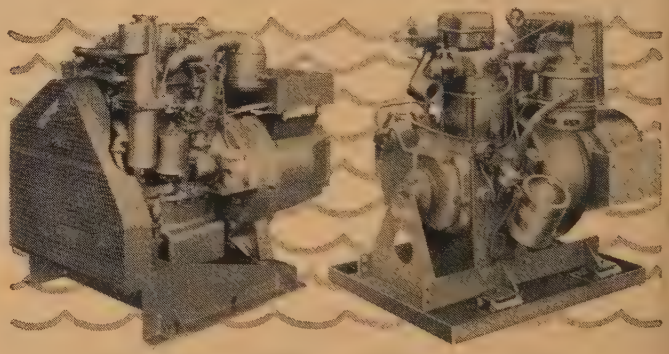

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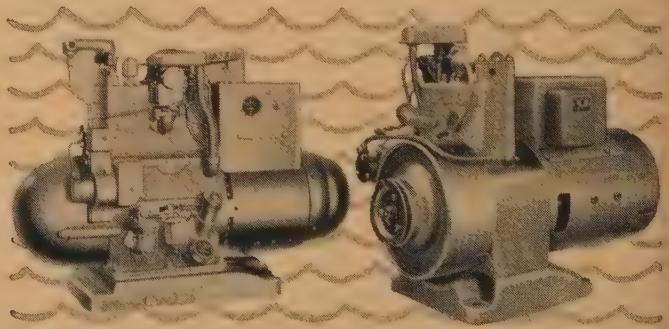

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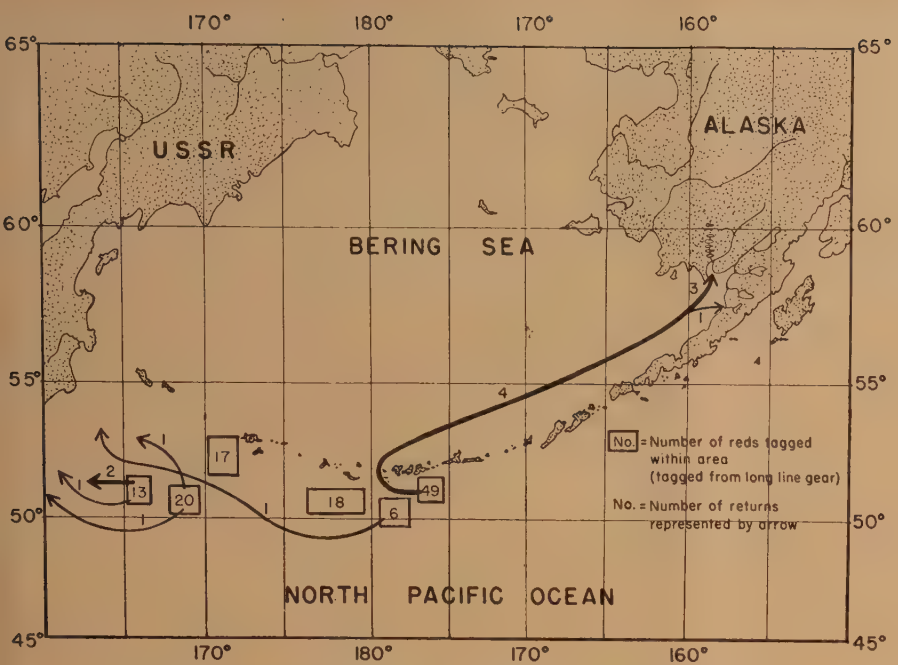


Japanese Tagging Results-Red Salmon-June 6-July 8, 1958

Allan C. Hartt, high seas tagging project leader, FRI.

uct of information on which a forecast of future mature runs can be based.

Past correlation between the catch per set, and the age-class composition in relation to future runs of mature fish entering the coastal fishery, was discussed for the Salmon Research Conference by Allan C. Hartt, project leader of the F.R.I. High Seas Salmon Tagging Contract with the American Section of the International North Pacific Fisheries Commission.

His statistical data bore particular significance, as it represented the latest possible index of surviving abundance of the salmon, when they had passed through the major sources of ocean mortality—save for the Japanese high seas fishery of their final year—before they entered upon the climactic period of their mature year.

What of the Next 10 Years? Evaluating Some Suggestions

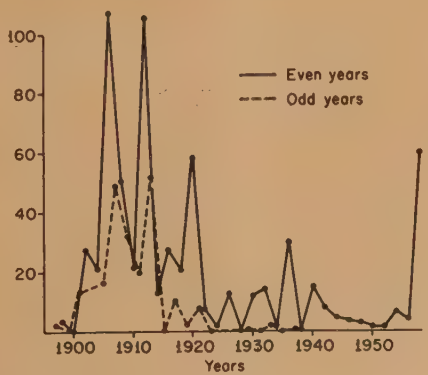
● Analytical examination and appraisal of a number of the proposed solutions to the problem of the Alaska salmon resource rested with Dr. William F. Royce, director of the institute.

He spoke dispassionately and objectively, but pulled no punches. Briefed tightly, his points of evaluation were these:

● *Hatcheries*—In Alaska and British Columbia hatcheries have failed to create or maintain a spawning run. Hatcheries may be a necessary substitute for natural spawning areas, but they have not been a satisfactory supplement where natural spawning areas are available.

● *Predator Control*—This method has possibilities of benefit, but should be entered into cautiously, lest it prove (1) that the cost exceeds the benefit; and(2) that removal of predators may actually have harmful results, as has occurred in some instances where natural balance has been disturbed. Control of predators on the high seas, as in the case of sealions or fur seals, appears to answer the second objection, as predation then occurs under conditions where obscure damage appears improbable. So also may estuary predator control, as of balugas, prove advantageous.

Nushagak Pink Packs



● *"Tailoring" Lake Conditions* — It does not *now* appear sound to undertake application of this method to Alaska conditions. Advantages of fertilizing lakes have not been proven for salmon. Furthermore, complete population change must precede fertilization, else the predator and competitor fish would be benefitted as well. "One does not fertilize an unweeded garden"; and to change the population in a Red salmon lake without destroying the salmon in the fry stage does not now appear possible. The method needs more, much more, sound knowledge produced by careful investigation before it can be applied safely and with promise of success.

● *Improving Streams and Spawning Beds*—This method has excellent possibilities and needs to be tried further in the field under a comprehensive program. Mechanical increase in the water flow through spawning gravels appears to offer excellent opportunity. Good gravels can be tremendously productive. Witness the "big year" yield from 305 acres of gravel beds on the Adams River.

Dr. William F. Royce, director, Fisheries Research Institute

Recommendation: a practical test of spawning bed cultivation by mechanical tools to remove blinding fines.

Opening inaccessible streams to salmon migration is desirable, where practicable; but there are not many instances where this can be accomplished at justifiable cost.

What of the Future for Alaska's Salmon Resource

● Meeting this thorny question sharply, Dr. Royce made three points:

The future will depend upon:

1. How well and wisely the fisheries are administered and regulated by the new State.

2. How effectively such regulations are enforced.

3. The degree to which the Japanese high seas fishery is controlled in the areas where it bears upon salmon races of Alaskan origin.

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	*Heat units per gal	**Cost per gal	Cost per 100,000 BTU
Typical marine premium gasoline	123,250	20.4	16.6¢
Kerosene (Premium #1 Diesel)	139,360	16	11.5¢
#2 Diesel fuel	141,160	14	10 ¢

When you buy fuel you are buying BTU's, and from this you can see that premium gas costs 6.6¢ more per 100,000 BTU and that if your diesel has a fancy appetite requiring Kerosene (Premium or #1 diesel) your fuel bill will be up 11½%.

A diesel has much higher compression than your gasoline engine (perhaps 18:1 compared with 7:1). This creates much greater efficiency—and if your diesel is happy with real diesel fuel, you have the ultimate. Remember, with a diesel you not only greatly increase the safety factor aboard your boat but you can also extend your cruising range by 50% while still using your present tanks!

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For steady hauls all season these purse seiners rely on Monel shafts

A lay-up of even one day would be costly – as much as 100 tons of Menhaden! That's the kind of haul a pair of purse seine boats has to turn in daily during the five month season. No wonder Fish Products Company of Lewes, Delaware, has selected Monel shafting for their boats – 78 of them!

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As Fish Products already knows, and as you can discover for yourself, Monel nickel-copper alloy shafts keep a workboat working, season after season. That same dependability goes for Monel fuel and water tanks, and other Monel accessories, fittings and fastenings that are subject to hard use and corrosive attack. *Registered trademark

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No Alaska Fish Bonanza In Wake of Salmon Traps

By RALPH W. STONE

As a gill-netter on Cook Inlet, I would like to comment on the arguments that trap elimination will seriously or dangerously reduce salmon fishing effort in the 1959 season. I think this idea has little basis in fact. If boat-builders and fishermen come to believe, through reiteration and publicity given this propaganda, that Alaska really needs another 2000 boats to fill the void left by the traps, the result could be disastrous.

Here on Cook Inlet, we had 50 licensed traps last year. This is probably as heavy a trap concentration as any in the state. The situation on Cook Inlet, with traps abolished, will be about as follows:

1. Some canneries will not pack this year. Mostly, this decision was reached before Mr. Seaton made his first announcement on traps, and is more due to low packs and difficulty of operating two days a week than to trap elimination.

2. Fish and Wildlife Service has told us not to expect any more fishing time than the two days a week we got last year, as trap elimination will not make any significant difference in fishing effort.

3. Even if trap elimination did significantly affect fishing effort, the change would not affect the catch and would probably leave both fishermen and packers better off. The way we have been operating in recent years, fishing two days a week, neither canneries nor gear have been able to work effectively. Everyone concerned would be a lot better off with fewer canneries and fishermen, operating five days per week, than under the present set-up.

To be more specific about this two day business: Last year we just barely, through last minute cancellations, got under 1289 units of gear to operate two days per week rather than 1.5—as I recall, one man's boat burned up a day or so before opening, and that made it. A hand trap counts 4 units, a pile trap 8.5. There were about 40 hand traps registered last year, and about 10 pile traps. This makes a total of around 245 units. Under last year's gear time-table (which a lot of people thought was not stiff enough) trap elimination, with no gear coming in to replace it, would get us under 1049 units to permit 2.5 days fishing per week, but would not come anywhere near the 879 units we need to operate 3 days.

In fact, 3 new boats fishing will put us right back on two days per week, and completely replace the traps as far as legal fishing effort on Cook Inlet is concerned.

As far as the seiners are concerned, in the Outer District they will not be affected at all by trap elimination. In Kachemak Bay, any hole left by the traps could be plugged by a few more seiners coming in and relieving the congestion in the Outer District. If this did not do it, opening the lower Bay to drifters certainly would.

It is true the Cook Inlet pack will probably be lower in 1959 than in 1958. This will not be because there isn't enough gear to catch the fish, however, but just because the fish won't be there. It will be an off year for pinks and dogs, and there is nothing to be optimistic about in the red situation.

I can't speak with direct knowledge of the other areas, but I don't think they are too much better off. Prince William Sound will be closed, I understand; Bristol Bay will either be closed or very severely restricted; and Kodiak is not expecting a good year. In this connection, it is worth noting that a few years ago area registration was introduced; requiring gear and boats to be registered in a definite area 30 days before fishing, and restricting gear or boats from subsequently moving to another area. This was necessary to prevent overcrowding from gear already fishing in Alaska. There is a hardship clause in the regulation, allowing area restriction to be lifted if conditions warrant. In the very improbable event that some area should be slugged by fish they couldn't handle, exercise of this option would bring in plenty of gear from other areas to take care of them.

All in all, the idea that there is not enough gear, with the traps gone, to handle all the fish we can safely catch; when for years we have been accepting tighter and tighter restrictions as a necessary conservation measure against over-fishing; is simply ridiculous.

Unless these points are publicized as strongly as the claims of the trap operators have been; a lot of fishermen, boat-owners, gear salesmen, who are looking for Bonanzas in Alaska with "37.5 million dollars of new gear needed to fill the hole left by the traps;" are going to be bitterly disappointed. I don't see how that can help anyone at all in the fishing business.

B.C. Whaling Operation Saved in Nick o' Time

Although all parties involved in February had written off the possibility of continued whaling operations in British Columbia this year, a last-minute agreement on wages enabled the B.C. Packers' fleet to be reactivated.

A compromise pact between the company and the union providing for a wage increase of $20 monthly this year and $15 next year, plus some minor and fringe benefits and bonus adjustments, was satisfactory to boat crews. Whaling station personnel will receive a 4% wage increase in 1960, as well as a guaranteed monthly wage —the amount still to be fixed—this year.

In return for these concessions the company was given the protection of a two-year contract, and this assurance enabled management to spend an estimated $200,000 on refitting the whaling fleet with a greater sense of security and stability.

In view of the delay in negotiations it was necessary for the company to rush preparations for the season, but it was expected that operations would be under way again by April 1.

Last season the company's fleet accounted for 774 whales, the largest number ever taken in B.C. waters, and the operation was said to have been more satisfactory than in the past from the profit standpoint. However, the original 1959 wage demands of the union and the later revision were regarded as unacceptable by the company, whose counter proposal to continue under the old wage scale was similarly rejected by the union.

International Fisheries Meet Re-Set for April 21

The meeting between advisory committees representative of the Canadian and American fishing interests concerned with shared fisheries in boundary waters in and at the entrance to the Strait of Juan de Fuca, together with representatives of the two governments, will be held in the Customs Building, Vancouver, B.C., April 21.

This is the meeting which was originally scheduled to be held in Seattle March 25.

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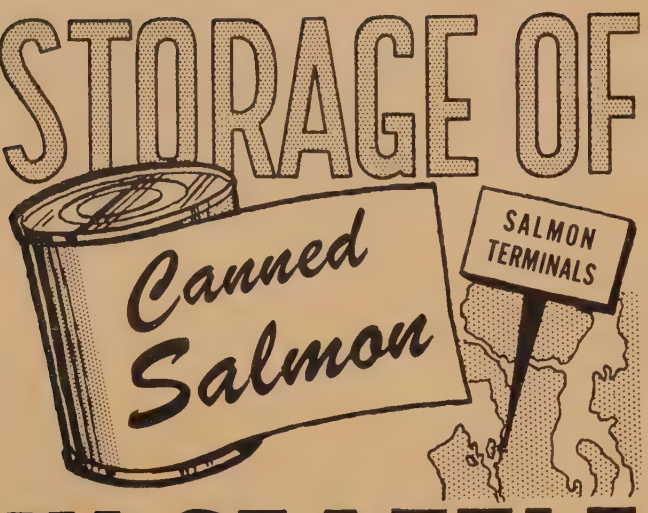

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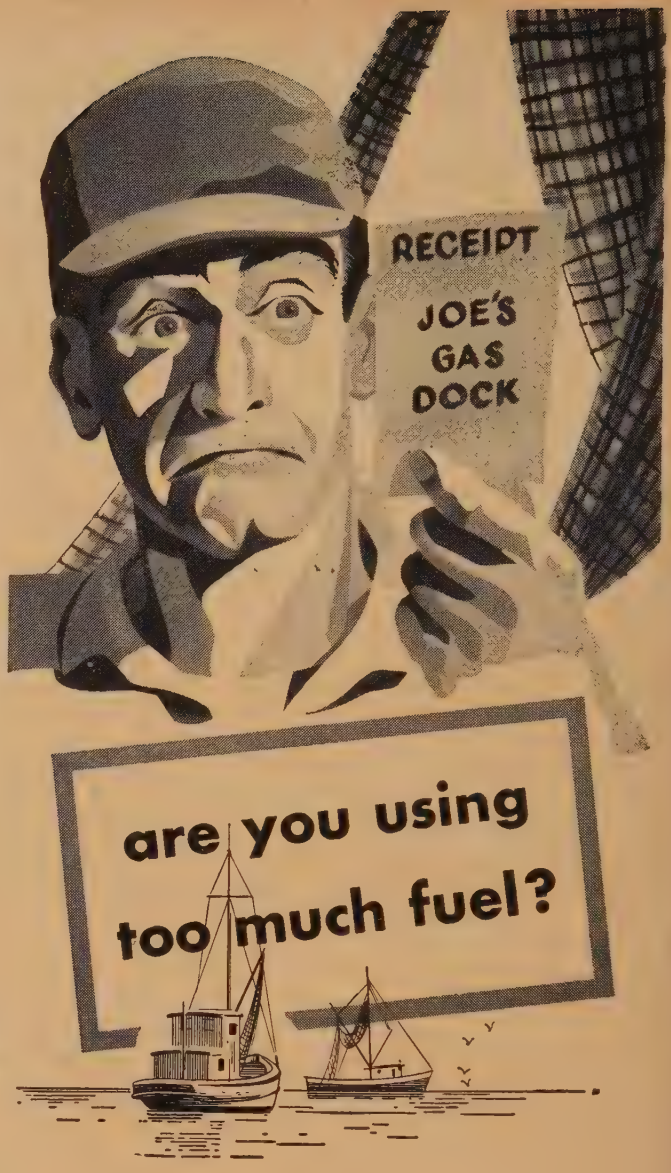

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FOOD FISH MARKETING

News and Views of National Trade in Fish and Shellfish

Section of PACIFIC FISHERMAN — April, 1959

California Imports of Frozen Tuna

Cumulative data in tons for 1959 through Mar. 14, and for other years to the nearest comparable date. Data from U. S. Market News Service

	Albacore	Skipjack	Yellowfin	Unclassified	Total
San Francisco	101	151	1,605	...	1,857
San Pedro	3,149	1,881	9,159	...	14,189
San Diego	352	192	1,251	...	1,795
Total to Mar. 14	3,602	2,224	12,015	...	17,841
1958	3,679	995	6,591	5	11,270
1957	5,186	2,889	5,246	...	13,321

Salmon Supply Picture Is Shy of Bright Spots

• Canned salmon marketers, with no pressing sales problems to concern them in the immediate present, ran-out the last two weeks of Lent peering into the future.

They were trying to discern the effect upon their business, and that of their customers, to say nothing of their suppliers and principals, of the various closures which were clattering down as spring came on.

Secretary Seaton closes all except a handful of Indian-owned salmon traps in Alaska. What will that mean in the 1959 supply of Pinks and Chums?

Then he follows-up with an announcement that he will close Bristol Bay to industrial fishing in 1959. This is interpreted to mean that there may be some set-netting by resident fishermen permitted, but even that expectation is not clearly defined. What's that going to do to the supply of Reds? The answer is obvious.

The answer might be to scurry off to Japan with a bunch of orders, but in general the United States trade is so bitter about the whole business that they fear the "Product of Japan" legend on the label might be a shelf-life-sentence, no matter how small the type in which it would be printed.

Then of course there's the very good possibility that the Japanese themselves may not have too many Reds for sale.

Why? Well, if the Soviet Union has its way — and it usually does — the Japanese Red pack this year will be a lot smaller than it has for some time.

Furthermore, the Japanese are planning to sell as much salmon as they can to the United Kingdom, where the newly freed trading of September, 1958, gave them such a lift. In past years the U. K. has been a good and consistent market for Japanese salmon, and the excellent businessmen of Japan are planning to take good care of it.

• Another adverse point:

At the end of March Loyd A. Royal, director of the International Pacific Salmon Fisheries Commission re-interested to that body the opinion of his scientific staff with respect to the prospect for the 1959 Pink salmon run to Puget Sound and southern British Columbia. The opinion is this:

That the run of Pinks to these waters will be short; on the order of the poorest recorded in any odd-numbered year in the past.

Along with this forecast, and perhaps in some small part because of it, goes the word that all sellers with Pink talls had moved their quotations on the item to $22, effective generally on April 1. The move had been gaining adherents for some time, and unquestionably stiumlated the movement of a lot of Pinks at $21 during the month of March.

Seattle Market

Market prices currently quoted at presstime by Pacific Northwest brokers and cannery sales department, cases of 48 tins, unless otherwise specified, good quality, as reported by the U. S. Bureau of Commercial Fisheries, Market News Service.

Items and Packages	Per Case
Puget Sound	
Sockeye, halves	$22 -24
Sockeye, quarters	12.50-13
Alaska	
Red, talls	34 -36
Red, halves	22 -23
Pink, talls	21 -23
Pink, halves	13 -14
Coho, talls	27 -28
Coho, halves	15.50-16.50
Chum, summer, tall	18
Chum, summer, halves	11.00-11.50
Chum, 4-lbs. (12)	18
Chinook, talls	29 -30
Columbia River	
Blueback, halves	23
Blueback, quarters	12.75-14.50
Chinook, fancy, halves	25 -26
Chinook, fancy, quarters	13.75-14.50
Chinook, choice, halves	17 -17.50
Chinook, choice, quarters	10 -10.50
Silver, halves	17 -17.50
Silver, quarters	10 -10.50
Tuna, Northwest Pack—	
Albacore, fcy., 7 oz.	14.50-15
Yellowfin, chunk, 6½ oz.	10 -10.75
Tuna, Featured Pack—	
Albacore, fcy., 7 oz.	14.85-15.25
Albacore, fcy., 3½ oz.	9.10- 9.50
Albacore, chunk, 6½ oz.	11.00-13.25
Albacore, chunk, 3 oz.	7.25- 8.00
Lightmeat, fcy, 7 oz.	13.75
Lightmeat, fcy., 3½ oz.	8.55
Lightmeat, chunk, 6½ oz.	12.50
Lightmeat, chunk, 3 oz.	7.50
Canned Crab—	
Dungeness, 24, 6½ oz.	12.50
Dungeness, 3¾ oz.	7.60
King, 48, 7½ oz., fcy.	29
King, 24, 15 oz., fcy.	26.50
King, 24, 7½ oz., fcy.	14.60
Northwest Shrimp—	
Wet Pack, 24, 4½ oz.	8

Southern California Domestic Tuna Receipts

Cumulative totals for 1959 through March 14, in tons, as reported by U. S. Market News Service

	Albacore	Bluefin	Skipjack	Yellowfin	Bonito, etc.	Total
San Pedro	3,149	92	6,232	18,723	109	28,305
San Diego	352	12	4,685	5,748	3	10,800
Total 1959 through Mar. 14	3,501	104	10,917	24,471	112	39,105
Total 1958	2,911	277	11,131	16,611	114	31,044
Total 1957	4,353	104	12,886	17,950	24	35,317

Salmon Cutting Judges

(Continued from page 19)

cobsen, Merle Tappendorf.

Emard Packing Company — S. T. Olson, Joseph B. Groh.

Excursion Inlet Packing Company —P. N. Holm, Robert L. Syre.

Fidalgo Island Packing Company— Fred Gunderson, Roy L. Hendrickson.

F. A. Gosse Company—Ray Clark.

Haines Packing Company—George D. King, Edward Thorell.

Halferty Canneries, Inc. — Vernon Paulson, E. H. Benton, Dave Giddens, William Hayes, W. D. Johnson, D. S. Valentine.

P. E. Harris Company, Inc.—Don Rawlinson, Peyton A. White.

Hydaburg Cooperative Association —Eldon Grimes, Erling Malmo.

Kadiak Fisheries Company — Donald Engblom, Fred R. Meyer, Donald Mullis, Otto Olsen, R. H. Osterle, Earl W. Sifferman, W. J. Trimble.

Kelley-Clarke Company — C. William Frankland, W. C. Meredith.

Ketchikan Packing Company—Fred Dobzinsky, Douglas P. Payne.

Klawock Oceanside Packing Company — Wm. F. Beveridge, E. S. Moyle.

Libby, McNeill and Libby—Carl A. Aspelund, R. S. DeMeules, James A. Ekern, R. D. Hodgins, Lars Nerland, Tom O'Shea, A. R. Pearmain, L. P. Rasmussen, Russell J. Rohrer, R. J. Springhill, R. H. Whitenack, D. H. Zeiger.

The Nakat Packing Corporation— Ed Auer, Harold T. Englund, D. M. Franett, H. F. Friele, H. W. Gundersen, G. F. Hecker, Joe Schmotzer, T. B. Templeton, N. Ytterdal.

New England Fish Company — Tom Andersen, Randall Beard, G. F. Boothby, Victor Carlson, J. E. Forsell, Donald Hamilton, Norman Haugland, Gunnar Johnson, H. W. Lee, Douglas Rogers, C. P. Skogmo, Sun W. Yip.

Northern Products Corporation — Leif Eriksen.

Northwest Reconditioning Company —Clarence D. Gibbons.

Oceanic Sales Company — James Stephens.

Ouzinkie Packing Company — Eric Bulmer.

Pacific American Fisheries, Inc. — Carl F. Anderson, W. B. Axelson, Galen A. Biery, Ivan Finsberg, John A. Gillis, Lloyd Guffey, James S. Johnson, Andre A. Mattson, J. H. Morrison, H. B. Norberg, B. O. Ringoen, R. C. Rogers, Marvin C. Snyder.

Pelican Packing Company — Ralph E. Edwards, Frank J. Karls, Frank Wright, Jr., Walter O. Husfloen.

Petersburg Processors, Inc.—Eilert Holbeck, A. L. Rogers.

Petersburg Seafoods, Inc. — Ray Wood.

Frank B. Peterson Company—Emery R. Stanley.

The Puckett Company — David G. Puckett.

Queen Fisheries, Inc.—Emil R. Peterson, C. B. Williams.

Safeway Stores, Inc. — F. L. Summers.

San Juan Fishing and Packing Company—Donald Eliason, Ivan L. Fox, Wayne Lawson, Al O'Leary.

Seaport Fish Company — Andrew Dzyacki, Eugene D. Hervin.

Scheerer Canning Company, Inc.— Eugene C. Scheerer.

Walter P. Shiel and Company — Walter P. Shiel, Jr.

Wards Cove Packing Company — Gerald C. Steele.

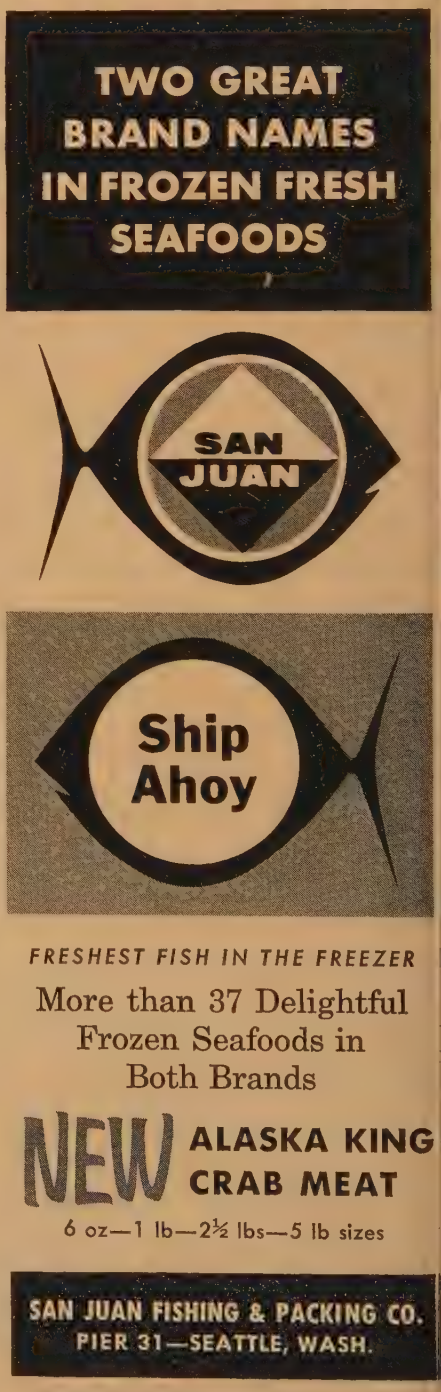
Washington Fish and Oyster Company — William Hingston, E. H. Algyer, Raymond W. Beck, A. J. Nielsen.

Western Fisheries, Inc. — John J. Green, Justin V. Strom, Chas. H. Wright.

Whitney and Company—James A. Braymer, Elmer Burgess, John K. Lyon, Milton A. Smith.

Whiz Fish Products Company — R. O. Pierce, Ike Alhadeff, Stanley Bear, Kay Goodman, Thor Goodman, E. A. Hansen, R. E. Silver.

Yukon River Fishermen Cooperative Association, Inc.—John T. Emel.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NEW ALASKA KING CRAB MEAT
6 oz—1 lb—2½ lbs—5 lb sizes
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PIER 31—SEATTLE, WASH.

Nic F. Trutanic, left, here takes over as president of the California Fish Canners Association, succeeding J. M. Mardesich, center, president of Franco-Italian Packing Co. On the right is James R. Barry, California Marine Curing and Packing Co., new vice president of the association. Mr. Trutanic is vice president of Star-Kist Foods, Inc.

Tuna Loin Export Price Is Reduced

Prices of tuna loins for export were reduced sharply by Japan early this spring, as Albacore loins were quoted at $730 per ton fob. Japan, down from $800. Yellowfin loins at the same time were priced at $565, down from $640-620.

It was anticipated that this reduction would stimulate trading, but there was little prospect at time of writing early in March that the 3,000-ton target for the twelvemonth ending March 31, 1959, would be attained.

The price reduction was prompted by the falling-off of interest in loins in the United States after trade was resumed in the fall.

Export quota for the twelvemonth starting with April has been set at 3,000 tons, the same as for the past year.

New England Engages Brannan for Nushagak

New England Fish Company announced March 15 that Paul G. Brannon has been engaged as assistant superintendent of its operations in the Nushagak district, with headquarters at Dillingham, Alaska.

Mr. Brannon has been a resident of Dillingham for a number of years and will maintain his home and office throughout the year at Nefco's Dillingham Cannery. His activities will be under the supervision of F. L. Daly, Jr., superintendent of the company's Bristol Bay operations.

Van Camp Completes Move to Long Beach

Van Camp Sea Food Co. completed its move to Long Beach, Calif., last month with a three-day open house.

Three different groups of guests, averaging about 700 for each group, visited the up-to-the-minute new office building, inspected the spic-and-span facilities, and refreshed themselves at huge tables set up in the employees' cafeteria and patio.

They were welcomed by top executives of the Van Camp company, who spelled each other off in a receiving line in the reception room.

One of the opening days was devoted to the Van Camp company family, when employees and their families were special guests of the management.

King Crab Fishing Heavy Around Kodiak

Heavy production of King crab was reported this spring in the waters around Kodiak Island, with plant capacity rather than crab abundance controlling the production. The pack was reported going largely into frozen goods, although there was some canning.

Cook Inlet production appeared again to be below the level of former flush years.

For over 65 years...

Bumble Bee has upheld and extended the reputation of the seafood canning industry by processing and marketing products of the finest quality.

In this way, Bumble Bee's matchless standards help to insure the growth of our own business, the welfare of our employees, and a constantly expanding market for the catch of the fishermen.

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Astoria, Oregon
Tuna, Salmon, King Crab Meat, Frozen Seafoods, Seafood Delicacies

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Pink Salmon
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S. P. Trixler Returns To Portland Brokering

S. P. Trixler, general sales manager and director of advertising, SeaPak Corporation, resigned both positions to re-enter the brokerage business in Portland, Ore. Mr. Trixler was formerly in the brokerage business in Portland prior to his duties at the SeaPak Corporation as assistant sales manger in 1956. He will remain in the capacity of General Sales Manager and Director of Advertising until April 15.

Since Mr. Trixler took up the duties as sales manager at SeaPak Corporation, sales continued to increase at a very good rate.

Chile Shipping Frozen Langostinos to New York

Second season of shipping frozen Chilean langostinos to New York was initiated in March, according to private advices to *Pacific Fisherman* from Alberto Zavala V. of Santiago, a leading figure in this trade.

This spring also is seeing the first commercial shipments of canned langostinos from Chile to New York, previous parcels having involved only air-mailed samples.

Mr. Zavala reports that conditions which reacted against the acceptance of some of the 1958 frozen shipments have been corrected and that he anticipates that the goods will prove quite satisfactory. Pre-cooling and processing methods were altered to overcome the problems which developed in the first season.

Chile is also shipping langostinos, both canned and frozen, to Europe, with Rotterdam the most active port. Initial parcels were well received and active orders are anticipated before summer.

Henry Goodrich Jr. Buys Moss Landing Facility

Henry Goodrich Jr., formerly with the Santa Cruz Canning Co., Moss Landing, Calif., and Franco - Italian Packing Co., Terminal Island, has purchased the American Freezer Co. facilities at Moss Landing.

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Southern California Domestic Tuna Deliveries

Cumulative totals for 1959 through Mar. 14, in tons, as reported by U. S. Market News Service

	Albacore	Bluefin	Skipjack	Yellowfin	Bonito, etc.	Total
Clippers and Albacore Fleet	...	16	7,727	8,547	3	16,923
Purse Seiners	...	88	1,117	5,514	109	6,828
Total through Mar. 14	...	104	8,844	14,061	112	23,121
Total 1958	4	272	10,146	11,549	114	22,081
Total 1957	220	...	9,862	12,169	24	22,055

Mr. Goodrich, operating under his own name, will purchase salmon, crabs, Albacore and other seafoods.

The young man comes from a line interested in the fishing industry. His grandfather was for many years associated with Sooke Fishing & Packing Co. in British Columbia. His father Henry H. Goodrich, was a vice-president of New England Fish Co., first in the Columbia River, later in New York City, and now is a seafood broker in Phoenix. Goodrich plans a year around operation handling crab, bottom fish, salmon, albacore and bait.

Australia Tuna Export To America Is Forecast

Renewed efforts to export frozen Bluefin tuna to the United States from Australia are anticipated this year as result of heavy fishing experienced during the late winter and improved arrangements for freezing, shipping and marketing the fish.

Australian businessmen are believed to have secured commitments for purchase of fairly substantial quantities of the Bluefin from the fisheries of New South Wales and South Australia.

"Compared with last year, twice the quantity of fish has been taken in half the time," was the comment respecting the tuna run on the South Coast of New South Wales, Australia, made by the manager of a large cannery.

J. R. Townsend Tours Fisheries of Orient

James R. Townsend, San Francisco fisheries consultant, returned last month from an extensive Far Eastern trip.

In Japan Mr. Townsend visited the Moimoi and other netting factories in conection with the nylon netting being handled by Wilbur-Ellis Co., with headquarters in San Francisco.

Mr. Townsend also made a survey of the fisheries of British North Borneo, investigating the potential resources of surface and bottom fish.

In addition he visited Singapore, Hong Kong, and Manila in the interests of the production and marketing of canned fish.

Frank Donahoe Directs Coast Oyster Operations

Verne Hayes, president of Coast Oyster Co., largest producer and packer of Pacific oysters, in February announced appointment of Frank T. Donahoe as vice president in charge of operations for the company.

Mr. Donahoe also became a director of the company, where he serves on the board with Mr. Hayes, Walter Gillis, Jr., F. E. Hagelberg, D. Halldorson, Ward C. Kumm and Richard Murakami.

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Wise Pacific Coast Fishermen Choose

CUTLESS SOFT RUBBER WATER LUBRICATED BEARINGS

CUTLESS BEARINGS IMPROVE THE PERFORMANCE OF ANY VESSEL!

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Buy them from your favorite Marine Supply House or Ship Repair Yard when you haul out. Large west coast stocks, popular sizes. Factory stock to 11½-inch shaft size available overnight by air.

72' multi-purpose fishing vessel "Silver Viking II" built by Yarrows, Ltd. uses Cutless Bearings.

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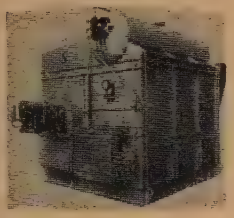

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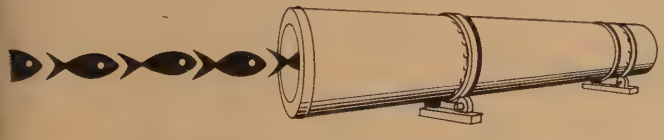

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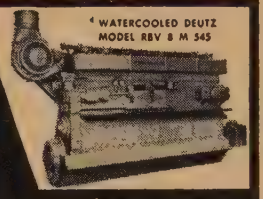

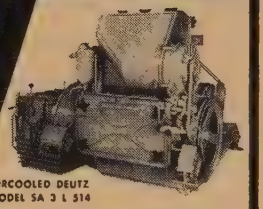

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"Jerry" Howard Heads New Tuna Research

Gerald V. Howard, veteran marine biologist and tuna scientist, is the new head of the Eastern Pacific tuna research program recently established by the Bureau of Commercial Fisheries, U. S. Fish & Wildlife Service.

His appointment was announced last month by Donald R. Johnson, California area director of the BCF, from his office on Terminal Island, Calif.

Mr. Howard has established his office in San Diego, at the Scripps Institution of Oceanography Field Annex, U. S. Naval Electronics Laboratory, on the tip of Pt. Loma.

The new director went to the Bureau of Commercial Fisheries from the Inter-American Tropical Tuna Commission, with which he has been senior scientist since the international body began its investigations in 1951.

Previously, Mr. Howard was with the International Pacific Salmon Fisheries Commission from 1941 to 1948, and also served for a brief period with the Food and Agriculture Organization of the UN.

Purpose of the new Eastern Pacific tuna research, Mr. Johnson said, is to gather information concerning the behavior of tuna, the best strategy for catching them, and the ocean conditions under which tuna can be caught most efficiently and quickly.

Heavy-Laden Trawler Founders, Drowning Master

Trawler *Northern Light* of Seattle foundered off Cape Mudge, B. C., in February when she ran into a stiff wind and heavy cross-chop while she was staggering home with a capacity load of 60,000 lbs. of true cod, taken in Hecate Strait.

Capt. Jonas Hoddevik was drowned. His brother, Hans Hoddevik, a co-owner of the vessel, Johannes Nygaard, and Ivar Reinholdtsen barely escaped when they were picked up from floating wreckage by a tug which was following close behind.

Book Pictures Deep Sea Fishing Lore

"They baited gear, chopped ice and sang the song of free men. They pulled oars, hauled long-lines and mended nets. Their boats sank or were hammered to spinters in rain-thick darkness and many never saw port again; but they always went out once more, these rough and gallant fishermen, always with the dream of hitting the big school."

This quotation from the foreword of a new Superior "This Was" picture history, "Fish And Ships," sets the tone and temper of a book in every way as gallant as the men and tasks it portrays.

The scene is the North Pacific from the Columbia River to Bristol Bay. There are two authors and they know what they are about. A. K. Larssen is one of those who sang the song of free men, a fisherman in Norway and Pacific waters and a writer of the life he has lived. Ralph W. Andrews is long skilled in this picture book technique, having five to his credit in the logging and seafaring fields.

Superior Publishing Company, Box 2190, Seattle 11, Wash., is publisher. The firm also announces for fall another maritime volume by Gordon Newell and Joe Williamson, "Pacific Coastal Liners," in their series of picture books covering deep water ships of the Pacific.

"Bob" Walker Enters Marine Supply Business

R. E. Walker, who retired as president of British Columbia Packers, Ltd., recently because of ill health, has become associated with a Vancouver fishermen's equipment company. He is a partner with George Davis in Ocean Marine Supply Co.

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Commercial fishing is a big job . . . a tough job . . . and a lot depends on rope. That's why Tubbs has such a large selection of ropes—all specifically designed and tested for the professional fisherman.

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Tubbs High Tensile Polyethylene—Half again as strong as Manila, rot resistant, and buoyant.

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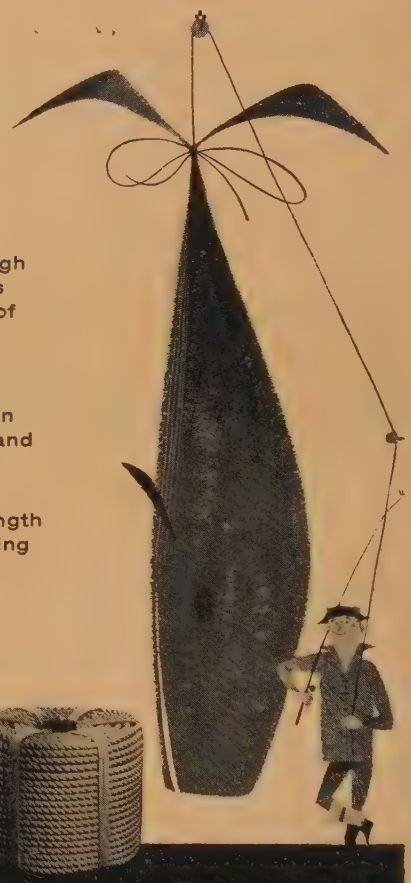

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Japan Spring Albacore Fishing Rather Favorable

Despite earlier predictions, fishing conditions and production of Albacore in the Pacific eastward from the main island of Japan have been rather favorable this spring, with Shimizu and Yaizu, two of the leading tuna ports, receiving regular deliveries.

Freezers were reported showing declining interest in Albacore, as the export movement to the United States has been laggy since the first of the year. This was reflected in the landed or "beach" price for Akbacore, which was around ¥90 per kg.

Central American Trouble Involves El Salvador

Troubles which developed last winter between Mexican fishing vessels and Central American republics started with respect to Guatemala, but also spread to El Salvador.

San Andres, a 76-ton Mexican shrimp vessel, was taken into custody by Salvadoran authorities in the vicinity of La Libertad, charged with fishing without license, and then taken to La Libertad, where the boat and crew were held in custody. Of two other boats, one got away, and a second one, which was being towed, cut loose en route to La Libertad and made its escape. A few rifle shots were reportedly fired at some point during the proceedings.

According to the government of El Salvador's published version, the three boats were caught fishing about one mile off the Salvadoran coast and chased out to about four miles before the *San Andres* was captured. Another version is that the boats were not fishing at the time, but were en route to fishing grounds off El Salvador or Nicaragua, although admittedly no more than some eight miles offshore (El Salvador claims sovereignty out to 200 nautical miles.)

Henry Pice Passes

Death came in February to Henry A. Pice, 74, who for 60 years had played a quiet, effective role in the salmon fisheries of the Columbia River, as an employe of the Columbia River Packers Association.

First as a gillnetter, then for 40 years as a seine boss, as a fish buyer after the seines were eliminated from the river, and again as a gillnetter, Henry Pice was a man who knew salmon and men.

The editor of *Pacific Fisherman* was one of hundreds who learned their fishing from Henry Pice.

True to his calling to the last, he was readying his gear for February gillnetting when a stroke came to him.

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The 10" aluminized picture tube gives you a clear, undistorted picture of floating derelicts, buoys, islands, docks and other vessels. You can operate safely under poor visibility, at night and in rough weather. Two models are available:

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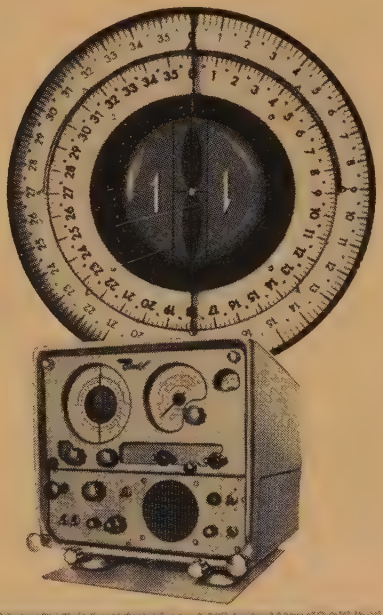
Model MR-3B for long range operations up to 20 miles. 1, 4, 10 and 20 mile ranges.



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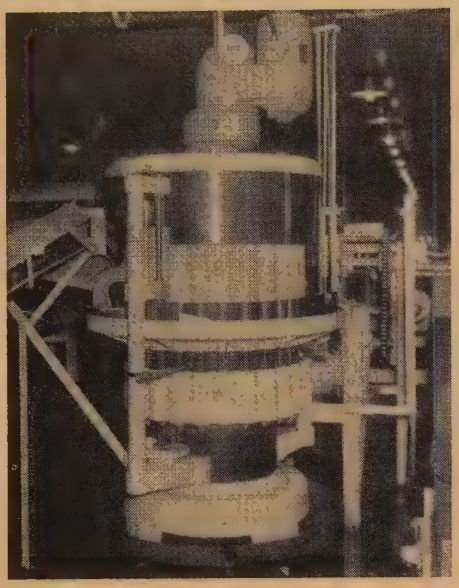

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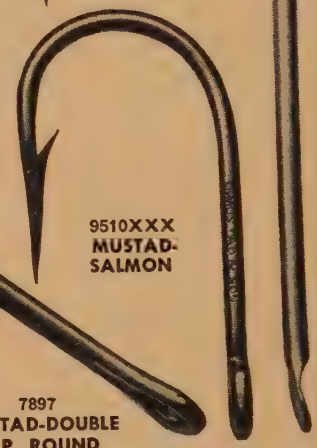

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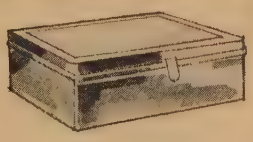

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B. C. Catch 229,000 Tons In Bumper Herring Year

● British Columbia's herring season, recently terminated, was notable for big production, several large individual catches and all-round abundance in all the established fisheries.

Total production for all districts was 229,634 tons, second largest on record. The lower east coast, as usual, accounted for the biggest harvest — 51,648 tons, but there were no "bare spots" this season, all areas contributing satisfactorily to the total.

Oil output totaled 4,545,845 imperial gallons. Meal tonnage was 42,307. There was no canning operation of significant volume.

Only in 1956, when total tonnage amounted to 253,396 tons, did herring fishermen have a better performance to their credit. Oil output that season was less than in the 1958-59 season, however.

Two of the bigger individual catches were made by Capt. Charlie Clark, consistent high liner fishing for Nelson Bros. Fisheries. His seiner *Western Producer* took 600 tons in Kwakshua Channel near Namu, and another 500 tons in a single set in Burnaby Narrows off the Queen Charlottes. Five hundred tons were also netted in one set by Louis Percich in the *Nancita*.

LINES and LEADERS

Modern Motors Is New Name Of Seattle G.M. Diesel Outlet

Modern Motors, Inc., is the new name for the General motors diesel engine division of Evans Engine & Equipment Co., Seattle. In future all diesel engine sales, parts and service business will be conducted through the new company. "The only actual change in the operation is in the name," emphasizes Charles R. Evans, president of the well known firm. There will be no changes in personnel or policies from the past and the business will still be conducted from the same plant at 4300 11th Ave. N. W., Seattle.

Formation of Modern Motors follows the continued expansion of the G.M. Diesel part of Evans' business over the past two decades. The firm became a G.M. distributor under the late A. V. Evans in 1938 and for many years was located on Lake Union until it moved to its present site two years ago on the Lake Washington Ship Canal. G.M. operations are now centralized in the new division.

Concurrent with the announcement of formation of Modern Motors comes announcement of a major expansion in G. M. Diesel's line from six basic marine diesels to fourteen. Major personnel in the local plant, one of the most modern marine engine operations in the country, remain the same. They include, besides C. R. Evans, Bruce Evans, vice president and treasurer; Walt Brydges, manager of marine engine sales; Al Lawson, parts manager; Ed Hill, service manager; and Jerry Snodgrass, shop foreman.

Evans Engine & Equipment Co. will still handle Euclid, Lima, Madsen and other equipment lines.

Nylon-Flax Blended Rope Produced by Columbian

A new combination of nylon and flax fibre used as rope has been developed by Columbian Rope Company, Nils R. Axelson, head of the firm's Product Engineering Department, disclosed today.

"The new nylon-flax rope combination (patent pending) overcomes the drawbacks of an all-synthetic line while making full use of nylon's great strength and durability", Mr. Axelsson stated. It stays wet and runs cool even when used with power winches.

The nylon-flax is much stronger than cotton and outlasts the average natural fibre rope many times, according to the announcement. Due to its nylon content, it withstands abrasion and has no wet strength loss.

"Exhaustive testing has proved the nylon-flax rope is excellent for purse lines and particularly for deep-water lobster warp because of the durability of the new rope combination," Mr. Axelsson said.

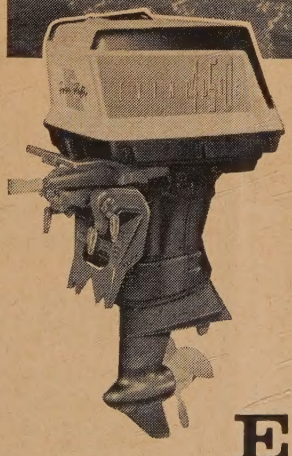
For full information on the nylon-flax rope, write Columbian Rope Company, Auburn, New York.

Fellows & Stewart, Terminal Island, Are Named Palmer Distributors

Fellows & Stewart of Terminal Island, Calif., have been appointed Southern California distributors for Palmer gasoline engines, it was announced last month by Jack Holland, who will be in direct charge of engine sales for the long-established boat-building and equipment firm.

Palmer, Holland said, manufactures of line of overhead-valve gasoline engines ranging from one-cylinder 5-hp to six-cylinder 150-hp. All are inboard engines, and are based, Holland said, on the well-known International Harvester heavy-duty engine.

One of the early installations of the new engines was made on the 24-ft. power skiff on **Sea Pride**, a San Pedro-based purse seiner. The skiff was repowered with a six-cylinder engine, 120 hp. Fellows & Stewart made the installation. **Sea Pride** is commanded by John Stanovich, who formerly skippered **Golden West**, another San Pedro seiner.



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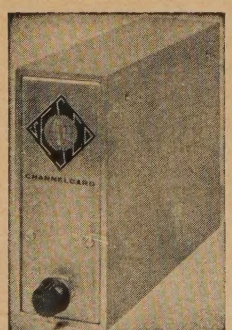

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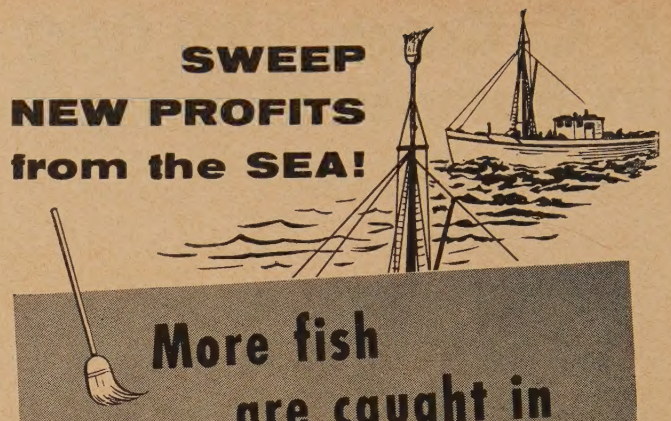

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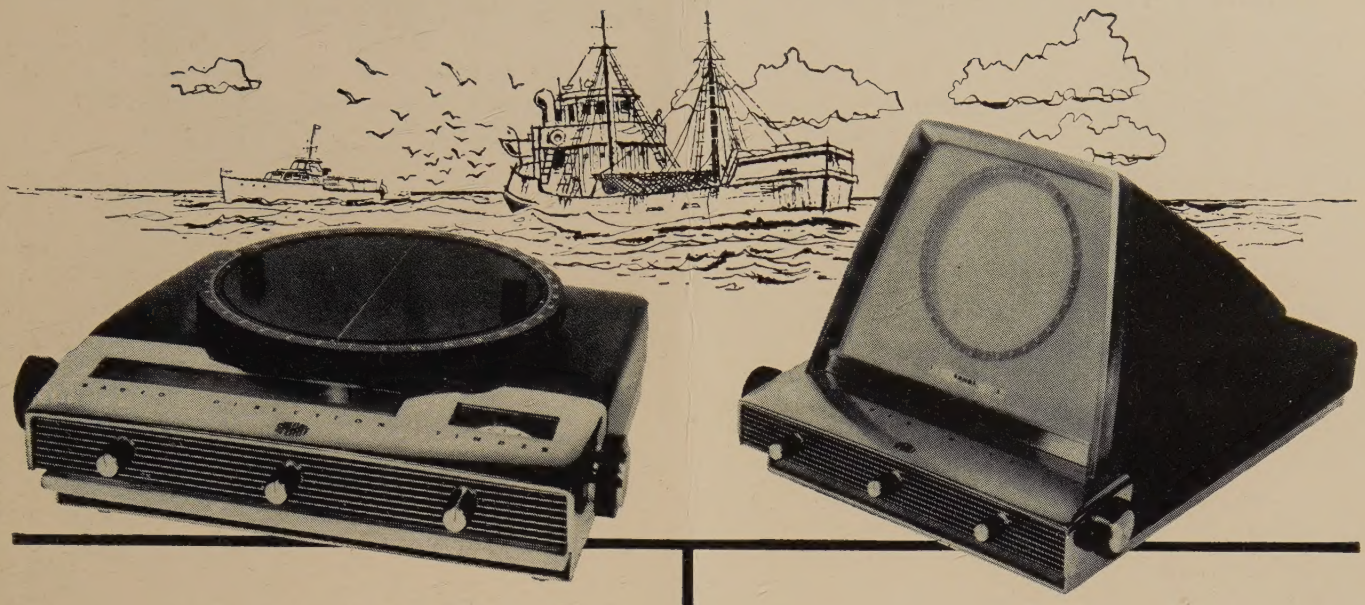

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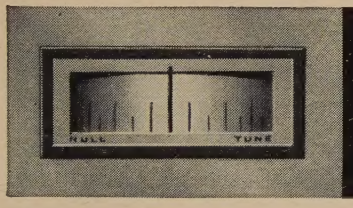

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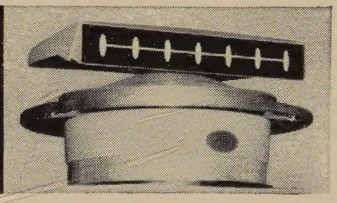

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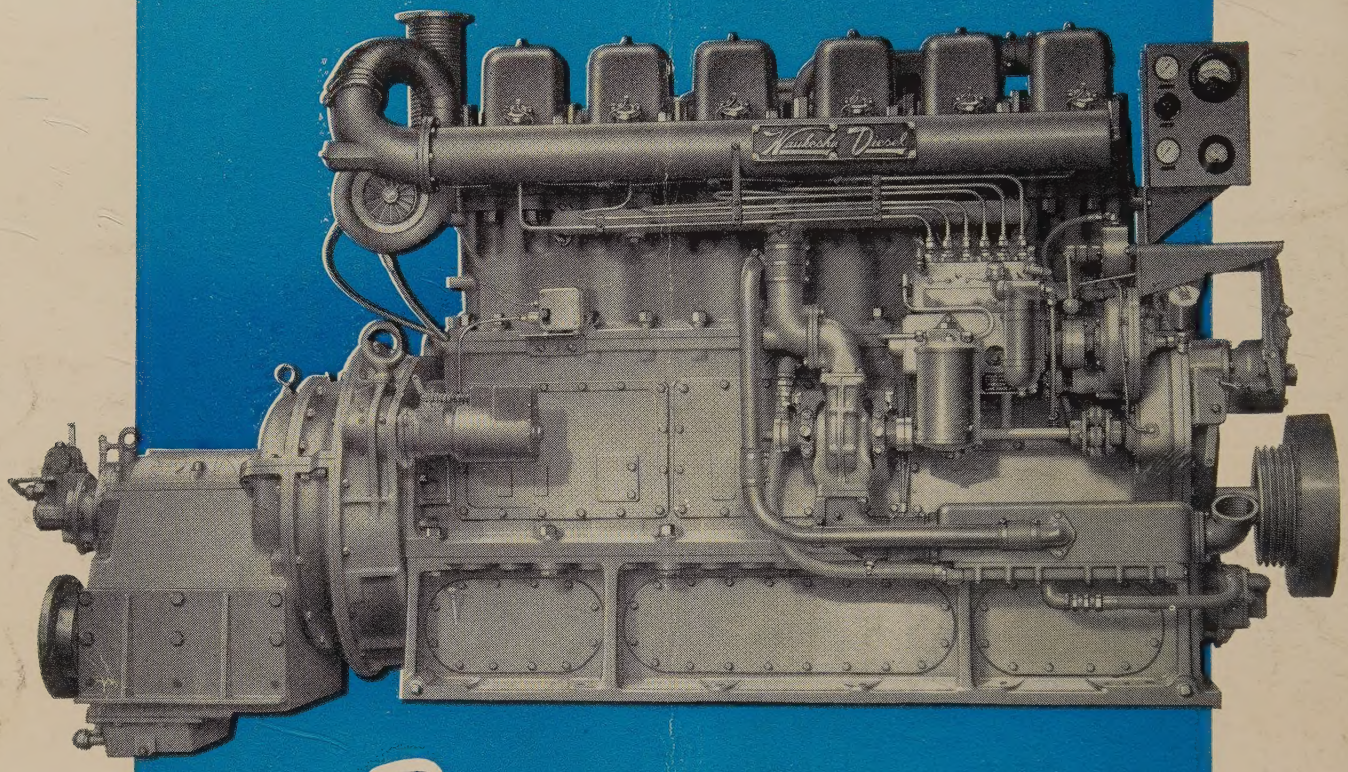

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